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The Iowa Spelling Scales

Their Derivation, Uses, and Limitations

ERNEST J. ASHBAUGH
Professor of School Administration
and
Assistant Director, Bureau of
Educational Research
OHIO STATE UNIVERSITY

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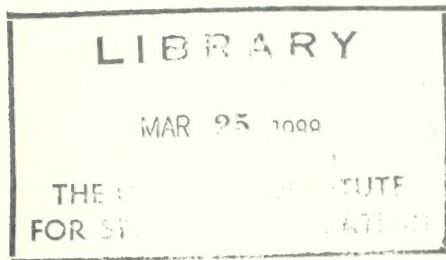
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I wish to thank the superintendents, teachers and pupils who gave so freely of their time and effort in securing the spellings and also the Dean of the Graduate College and the Director of the Extension Division who financed from their budgets the collection and scoring of the data.

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E. J. A.

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INTRODUCTION

The Iowa Spelling Scales have been extensively used. The relatively large number of words included in them and their freedom from excessive statistical manipulation have rightly commended them to practical workers. They have, however, been out of print for some time. Moreover, even those who are fortunate enough to possess the scales in their original form no doubt realize that they are capable of a more useful presentation.

Accordingly this monograph is offered for those who desire a complete representation of the scale in permanent form. The percents of correct spellings in each grade are given for each of the nearly 3,000 words of the scale. Nowhere else has such a detailed showing of the difficulty of the spelling of words been made.

An account is also given of the derivation of the scale; and this is no inconsiderable contribution. The reader will no doubt be impressed by the author's scientific attitude and by his unwillingness to compromise with his ideals of accuracy through adopting all-too-prevalent devices for smoothing out difficulties and then pretending that such difficulties do not exist.

We are glad to observe the position which Doctor Ashbaugh takes on the question of the degree of difficulty of the words which constitute the best testing material. In substance he says that the nearer they are to 50 percent accuracy for the grade in question the better. There has been a strong tendency among users of spelling tests to select words which were much too easy. This tendency has been fostered partly by the fact that the Ayres Scale lists for each grade only the words spelled by 50 percent or more of the children, and partly by the naive desire to see larger figures. Somehow one thinks more highly of a class average of 87 than of one of 46, although the latter may indicate a better performance.

The publication of the Iowa Spelling Scales in this form will place at the disposal of school people a far larger number of evaluated words than have hitherto been generally available. This richness of material will greatly enhance the usefulness of the scale. Duplicate lists can easily be made, and a prolonged program of testing can be carried on without the necessity of making allowance for practice effects. Moreover, the fact that the words of the scale are selected on the basis of frequency of use in correspondence renders the material particularly appropriate for teaching and drill purposes. In fact as a spelling book this monograph has high value. The appropriateness of the words is assured because of their frequent use in correspondence—that is, in the only situation where spelling ability is sure to be required—while the known difficulty of the words permits intelligent grading and distinctions in teaching emphasis.

B. R. BUCKINGHAM, *Editor.*

SECTION I

INTRODUCTION

FIELDS OF EXPERIMENTAL PEDAGOGY

The last two decades have witnessed a large amount of work in the field of experimental pedagogy. This has principally followed three general lines, namely, (1) the selection of subject matter, (2) the determination of efficient methods of teaching or learning, and (3) the formulation of more or less objective measures for checking the results.

The Committee on Economy of Time of the National Education Association through its three reports (1) has done a large amount of work in the selection of subject matter. These reports have challenged the attention of superintendents and the recommendations have been written into numerous courses of study. State Teachers' Associations have taken up the work; their committees have attacked the problem and in many cases have added something to this re-direction of education.

The determination of efficient methods of teaching and learning has appealed to psychologists and teachers. In laboratories and experimental schools much time and effort has been spent in gathering bit by bit the evidence for the different subjects. The experimental evidence in reading, writing, spelling, arithmetic, drawing, and music, and such conclusions as are warranted thereby, have been collected from the various schools and are presented by another committee in the Eighteenth Yearbook. (2) Further consideration will not be given to this field since it is not pertinent to the research in this monograph.

The effort in the third line has brought forth the large number of scales and tests now available. The measurement of progress requires an accurate means of measuring initial status. The comparison of one class with another, or of one school system with another, especially when the testing must be done by different persons, also requires a measuring instrument little influenced by different personalities. One of the goals of the makers of standardized tests and scales has been to obtain an objective measuring instrument as little disturbed as possible by the individual using it.

Perhaps in no subject has there been more experimental work done than in spelling. The subject lends itself to careful study in the fields already designated. The investigations which we wish to review briefly as an introduction to the present study have dealt with two problems: (1) the determination of the vocab-

ulary which should be included in children's spelling, and (2) the derivation of objective scales for the measurement of spelling ability.

STUDIES IN THE DETERMINATION OF VOCABULARY

An examination of the tabulation¹ shown in Table I will reveal the fact that the sources investigated for the selection of spelling vocabularies fall into four general groups; (1) occurrence in reading vocabulary, (2) occurrence in school lessons or classroom work, (3) occurrence in children's compositions, and (4) occurrence in correspondence, usually that of adults.

The first attempt to compare carefully the spelling work of different school systems seems to have been reported by Rice (14) in 1897. In 1895 he sent out a list of fifty words to superintend-

TABLE I. CONSPECTUS OF VOCABULARY STUDIES.

AUTHOR	DATE	SOURCE OF MATERIAL
Knowles, Rev. J. (3)	1904	Passages from the Bible and various authors
Eldridge, R. C. (4)	1911	Articles of Sunday Newspapers
Ayres, L. P. (5)	1913	Personal and Business Letters
Jones, W. F. (6)	1913	Children's Composition
Cook, W. A. and O'Shea, M. V. (7)	1914	Family Correspondence
Nicholson, Anne (8) (Editor)	1914	Selected by teachers and supervisors from daily lessons
New Orleans Public School List (9)	1916	Children's School Work
Kansas City Public School List (10)	1916	Selected from pupil's misspelled words and teachers' judgment of words pupils should know how to spell
Houser, J. D. (11)	1916	Letters of farmers
Anderson, W. N. (12)	1917	Written correspondence of Iowa People
Horn, E. (13)	1918	Correspondence of Bankers to Bankers

ents in various sections of the United States. Twenty responded sending in the work of more than 16,000 children. The results of the test showed enormous variations, but a two months' tour spent in visiting the various schools convinced him that much of this variation was due to the peculiar manner in which the examinations had been conducted. Also careful pronunciation of several of the words would have given a clue to the spelling.

¹This tabulation presents only the more important studies from the different sources. For a more complete list see Anderson, W. N. "The determination of a spelling vocabulary based upon written correspondence." (Dissertation, University of Iowa, 1917.)

For these reasons the results of the test were considered unsatisfactory.

A second test involving fifty words in grades four and five, and seventy-five words in grades six, seven, and eight in sentence-dictation form, was given to 13,000 children in eight school systems. In these cases the tests were given under his personal direction and checked by his assistants.

Dr. Rice made no statement in his report regarding the manner of selecting his words except that in the second test "special care was exercised to omit words whose pronunciation would tell the secret" (15) of the correct spelling.

Too much credit can scarcely be given Rice for his pioneer efforts. He initiated the whole measurement movement. Two criticisms, however, may be directed against his work: (1) the words were not selected on the basis of those which children need to learn to spell; and (2) the words were of greatly varying difficulty but were given equal value in scoring. The best evidence in support of the first point is, that of the 77 words used in the second test, 15 do not occur among the 4,000 words of highest frequency in the combined results of the nine most extensive studies of correspondence.² These words are: almanac, ascending, changeable, conscientious, deceive, elegant, fatiguing, hopping, laughter, listened, praise, sensible, slipped, sweeping, whistling. Of these, six do not appear in any form, even the most simple.

Rice recognized that the material for spelling instruction should be selected in such a way as to eliminate unusual words. This is shown by two quotations: "The absurdities incident to the so-called 'natural method' were shown very clearly during one of my visits to a fifth-year class, when the pupils, who had studied the pine, were about to write a composition on the subject. In preparation, the spelling lesson of the day consisted of the following words: exogen, erect, cylindrical, coniferal, irregular, indestructible, pins, resinous, and whorls." (16) His fourth recommendation concerning the course in spelling reads thus: "Precedence should be given to common words, while technical and unusual words should be taught incidentally." (17) However, he gave us no clue as to how the "common words" should be detected.

That Rice's words were of greatly varying difficulty was pointed out by Thorndike (18) who gives the relative frequency of mistakes within the same group of children for each of the forty-nine words taken by Dr. Rice to be equal measures of spell-

² The results of this compilation have not been published. Access to the data was secured through the kindness of Dr. Horn.

ing ability. These forty-nine range from a frequency of forty-two errors to zero. Unfortunately, the table does not give the total number of children attempting the test, so it cannot be placed on a percentage basis.

The reader's attention is called to Table II. This table gives the frequency of error of fifth-grade children on five of Dr. Rice's words as found by Thorndike and the percent of error of fifth-grade children on the same words as shown by the Ayres scale and the present study.

TABLE II. DIFFERENCE IN DIFFICULTY OF FIVE WORDS REGARDED BY DR. RICE AS OF EQUAL DIFFICULTY.

Word	Frequency of Error Grade V—Thorndike	Percentage of Error Grade V—Ayres	Percentage of Error Grade V—Ashbaugh
necessary	42	58	77
disappoint	37	79	64
learn	3	12	14
because	1	6	6
picture	0	8	5

STUDIES IN DERIVATION OF SCALES

The studies intended to evaluate the words to be used in measuring spelling ability have been but two in number previous to this monograph.

Buckingham. (19) In 1913, Buckingham presented the educational world with the first spelling scale. He did preliminary testing with a list of 270 words selected from a much larger list of graded words used by the author in his own school. These had been selected by taking from five of the popular spelling books then in use, a vocabulary of 5,000 words agreed upon by two or more of the books, and then following two principles: (1) "that all of them should be sufficiently common to be in the speaking vocabulary of third-grade children," and (2) "that the spelling difficulty of many of them should be great enough to test the ability of eighth-grade children." (20)

These words were placed in sentences and dictated to grades three to eight. On the basis of the results, a group of 100 words were chosen which in general showed the following characteristics: (1) That the word was not so difficult that it offered no test of third-grade ability. (2) That it showed a steady increase through the following grades but did not reach so high a figure in the highest grades as to prevent its being a test of ability there.

These words were placed in sentences and their difficulty determined by additional testing. By this process he finally arrived at a first and a second preferred list of 25 words each. In order

to get a measure of zero ability, an easy list of fifty words was devised. These words were then evaluated with a high degree of precision and were presented for testing purposes in the form of ten-, twenty-five-, and fifty-word scales.

The small number of words limits the usefulness of the scale since the entire list can be quickly learned to 100 percent median accuracy by a class of ordinary ability in the upper grades. The study is of great interest to advanced students of education because of the great refinement of method. It is doubtful, however, if the high degree of refinement adds anything to the value of the scale for practical use by teachers, principals, and superintendents in the field.

Ayres. (21) Probably the most advanced step in spelling measurement was taken by Ayres in 1915 in presenting his Measuring Scale for Ability in Spelling. The 1,000 words in this scale were secured by combining "the results of the several studies so as to secure the most reliable list as a foundation for the work." (22) The placing of the "one thousand commonest words" in the measuring scale assumes that children should be taught and be able to spell these "commonest words" even though they are unable to spell other words. With this assumption we agree.

Two criticisms will be offered concerning the selection of the words:

1. The list is a hybrid since it is made up by combining correspondence frequencies with newspaper and literary frequencies. A comparison of these 1,000 words with the most extensive studies of correspondence reveals 33 words which never occur in these correspondence lists, and 71 others which do not occur in the 3,000 words of greatest frequency. Such words as: arrest, convict, capture, estate, jail, mayor, police, testimony, victim, and witness, occur frequently in newspapers but only a few people ever have any occasion to write them. Why then should they be admitted to our minimal spelling lists?

2. In the selection of these words, root forms and derivatives were counted as one form unless they presented "different spelling difficulties." "Plurals and verb forms presenting no characteristic spelling difficulties beyond those inherent in the singular or infinitive have not been included. (23) Researches by the writer (24) have convinced him that almost without exception derived forms are spelled with less accuracy than root forms, however simple the change involved, and that one cannot select by inspection the forms having slight variation from those having wide variation.

A further criticism must be made on the regularity of the advancement of words in the scale. If all words were learned at the

same rate, this regularity might exist. Buckingham found that most of the words which he tried out did not progress regularly and that frequently there was a reversal instead of advance in accuracy from one grade to another.

He says, "In order that this list should be of greatest value it should be so constituted that the increases in percents correct so keep pace with the increase from grade to grade of general spelling ability that a word tends in all grades to maintain the same difficulty relative to all other words in the list to which it belongs. A word which is twentieth in point of difficulty for the third grade ought to deviate as little as possible from the same rank in the other grades. The experience gained in making this investigation leads us to think that most words do not meet this condition, even approximately. The span between the third and the eighth grades is very wide. Accordingly, a very large class of words is impossible for the earlier yet easy for the later grades. Still others are really difficult in the lower grades, but of almost no difficulty in the upper grades." (25)

The following illustration from Buckingham's Preferred Lists show that although he purposely rejected the most irregular words, irregularities still existed.

TABLE III. PERCENT OF ACCURACY WITH WHICH CHILDREN OF SUCCESSIVE GRADES SPELLED EACH OF THE GIVEN WORDS.³

Word	Third	Fourth	Fifth	Sixth	Seventh	Eighth
saucer	11	29	42	58	79	81
raise	21	54	67	84	93	94
already	16	42	43	62	44	77
grease	11	18	37	35	42	57

This table is read as follows: The word "saucer" was spelled by third-grade children with an average accuracy of 11 percent; by fourth-grade children with 29 percent; by fifth-grade children with 42 percent, etc. The percents for the other words in the different grades are read in the same manner.

The first two words show rather consistent increases up to the seventh grade and practically no increase from seventh to eighth. The other two show actual instances of lower accuracy of spelling in one grade than in the previous grade.

The present study shows numerous illustrations of the same phenomenon. Since no word was rejected, lapses appeared, as might have been anticipated from the fact that they occurred in Buckingham's highly selected list. Further, these lapses occur

³ These words with their accuracies were selected from Buckingham, B. R. *Spelling Ability—Its Measurement and Distribution*. Table III, page 14.

much more frequently in cases of high accuracy (i. e., very easy words) than in those of medium or low.

Because of these findings, a serious question must be raised concerning the amount of smoothing which Ayres must have done to get the perfect regularity from grade to grade which he has upon his scale.

In order to present the situation as it was actually found, it was decided to provide in the present study a separate scale for each of the grades and to include in each scale the whole number of words. Ayres arbitrarily rejected from consideration all words for each grade whose accuracy fell below the middle step. In the present study, no smoothing has been done to show regularity of progress from grade to grade and no words have been rejected from any grade scale regardless of the low percent of accuracy involved.

In the field of measurement, the Ayres scale has had a much wider influence than that by Buckingham. More than eighty-five thousand copies have been distributed in less than four years. Many spelling tests, such as those by Courtis (26), Monroe (27), Fordyce (28), and the writer (29) have been based directly upon it, and probably hundreds of superintendents have adopted it outright as a minimal list for their schools.

SECTION II

THE PROBLEM

Extension work by the writer among the school people of Iowa has brought the following facts clearly to his attention:

1. School people are eager to use the results of scientific research in their school rooms.
2. They have used and appreciated the Ayres Spelling Scale but rightly think that there should be a larger list.
3. For this larger list to be of most worth, the words must be evaluated in some manner.

It was therefore believed that a distinct service would be rendered the schools of the state if a much larger list, scientifically selected, should be evaluated and made available.

At the time the work was begun, the most extensive study of correspondence vocabulary was that of W. N. Anderson. Through the tabulation of 3723 letters of Iowa people, 361,184 running words revealed 3105 different words having such a frequency as to justify, in his judgment, their being taught in school. The Anderson list was an Iowa correspondence list, scientifically selected and containing sufficient words for a much larger list than had ever before been evaluated. Thus the problem became definite—*the making of an Iowa Spelling Scale.*

SECTION III

METHOD OF GATHERING THE DATA

SELECTION AND ARRANGEMENT OF WORDS

For administrative convenience, only 3,000 words were taken from Anderson's list. The words were listed in order of decreasing frequency and the first 3,000 were arbitrarily chosen. These 3,000 were divided into three sets of 1,000 words each, dividing the frequency as equally as possible. For example, the words *and*, *the* and *to* being in order the words of greatest frequency in Anderson's tabulation, became the first word respectively of each of the three sets. The 4th, 5th and 6th words in order of highest frequency became respectively the second words of each set, and so on. Each set of 1,000 was then divided into ten lists of 100 words each.⁴ In each set, the 1st, 11th, 21st, etc. words became list 1; the 2nd, 12th, 22nd, etc. became list 2; etc. Thus each list included words ranging from very high to lowest frequency of occurrence in Anderson's study. These lists were printed 100 words on a sheet, and the ten lists of a set clipped together.

CO-OPERATION OF THE SCHOOLS OF THE STATE

An invitation to co-operate in a state-wide survey of spelling was sent to the superintendents of schools in all cities and towns of the state, having a population of 1,000 or more. A few smaller places were also invited to participate. More than 150 superintendents promised the co-operation of their teachers in this work. Enough sets of words were sent to each of these superintendents to supply his teachers and printed instructions accompanied each set. A copy of these instructions and list 1 of the set will be found on pages 142 and 143.

These instructions requested ten days work from each class. The children in Grades II-IV were to spell 500 words at the rate of 50 per day and those in Grades V-VIII were to spell 1,000 words at the rate of 100 per day. All spellings were to be made without preliminary study or any teacher help. Children in all grades were thus asked to spell all the different words, although it was surmised that many of them would not be spelled by lower grade children. Preliminary experiments, however, had definitely shown that one could not predict with a high degree of accuracy what words the pupils in any particular grade would misspell.⁵

⁴ The reason for the division of the 3,000 words into sets of 1,000 and lists of 100 will be understood from the instructions to teachers. See page 143.

⁵ A very simple experiment in this line was made by the writer with his University class composed of school superintendents and teachers. List 1 of the present study (see page 142) was given to each member of the class with

It was therefore deemed necessary to ask a large number of pupils in each grade (II-VIII inclusive) to attempt to spell each word.

After the 3,000 words were printed and sent out, it was discovered that there were twenty-three words duplicated. Seventeen of these were duplicated in Anderson's original list, while there were six other duplicates due to typographical errors. Thus the list of 3,000 was reduced to 2,977, the number which appears in the completed scales.

The response of the superintendents, teachers and pupils was most gratifying. More than 100 school systems were able to do the work and send in the results. A list of these cities and towns is given on page 144. A conservative estimate indicates that nearly 1,400 teachers and 45,000 children participated in the work.

SECTION IV

METHOD OF HANDLING THE DATA

This very generous response brought in several times as much material as could be used. Hence, a random selection of papers on each list was made from all schools returning data in any grade. This means that on the average, about thirty-five cities and towns are represented by pupils in the determination of the position of each word in each scale. At least 200 spellings were used for each word and the total number of spellings used on the 2977 words in the seven grades was 4,662,200.

All data used were scored or re-checked by the writer or by assistants carefully instructed by him. As has been found by everyone investigating spelling, a number of arbitrary decisions had to be made. Words omitted; words illegibly written; words

the request that he should mark each word as follows: H if in his judgment the pupils of fifth grade would spell the word with an accuracy of from 67 percent to 100 percent; M if they would spell with an accuracy of 34 percent to 66 percent; and L if they would spell with an accuracy of 33 percent or less. The results showed that in spite of the great latitude allowed, but 45 percent of the judgments were correct as compared with the results in this monograph; 31 percent of the judgments were one unit wrong and 14 percent were two units wrong. Two units wrong means that words which pupils spelled with an accuracy of 67 percent or higher were judged as 33 percent or lower and vice versa. Even when the nineteen words whose spelling accuracies by the pupils fell within 5 percent of the dividing points, 33.34 and 66.67, were not considered, only 48 percent of the judgments were correct; 40 percent were wrong one unit and 12 percent were wrong two units. In other words, when experienced school men and women attempted to judge the accuracy with which children would spell a set of words, they were more than 10 percent wrong with more than half the cases and more than 33 percent wrong in 12 to 14 percent of the cases.

substituted due to misunderstanding the pronunciation; wrong form of homonyms; changes in number and tense except when the change involved an addition to, but no change in, the form given were all counted wrong. But one form of spelling for a word was considered right except the few words for which Webster's New International Dictionary lists two spellings as equally correct.

SECTION V

ASSUMED DISTRIBUTION OF ABILITY

It was stated in Section II that part of the problem was the evaluation of the words which had been scientifically selected. When the percent of accuracy of spelling has been determined, one form of evaluation has been made, but this is not entirely satisfactory, as will be shown later.

NORMAL PROBABILITY CURVE ASSUMED

Figure 1 presents a typical normal probability or normal frequency curve. The curve has the mass of its area in the central part and but a small part near the ends.

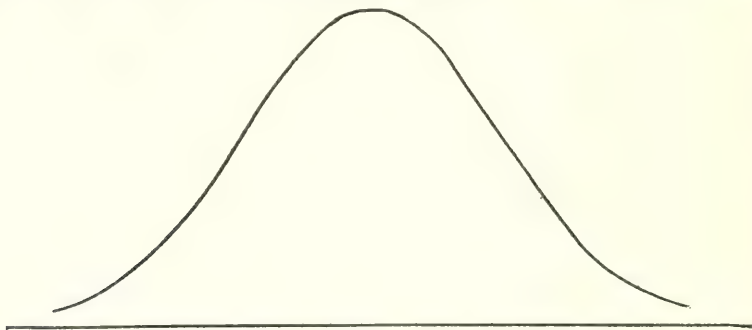


FIGURE 1

This form of distribution has been found to hold true in such human traits as height, weight, length of arms, etc. The great majority of adult men cluster closely around the mean height or weight of all adult men while a decreasing number divide about equally in varying above and below this mean. Only a few vary widely, but those who do are about equally divided as to the direction of their variation.

Does this normal frequency distribution hold true in mental as well as physical traits?

It is a well recognized fact that people with mediocre ability are much more numerous than the dull or the brilliant, and that the very dull and very brilliant are few indeed. Hence, common observation would suggest that general mental ability is distributed in the same manner as physical traits. Does this hold true, also, of the distribution of special abilities such as spelling, arithmetic, language, etc?

The various scales for measuring special abilities such as the Buckingham and Ayres Spelling, Woody's Arithmetic (30), Green's Organization (31), and Trabue's Language (32), have been developed upon the assumption that special abilities are so distributed. The best proof perhaps that the assumption is valid, is that if the assumption is made the results that follow are in very close agreement with the known facts. For these reasons, it was decided to make the same assumption in the present study.

SOME PROPERTIES OF THE CURVE

The mathematical properties of the normal probability curve have been very carefully and elaborately worked out on two bases, namely, the Probable Error (P. E.) or mean deviation, and the Sigma (σ) or standard deviation.

The Probable Error, as a function of the normal probability curve, is that perpendicular distance from the mean at which, if an ordinate is erected, the surface included between this ordinate, the curve, the mean ordinate, and the base line includes 25 percent of the surface included by the whole curve and the base line.⁶ In

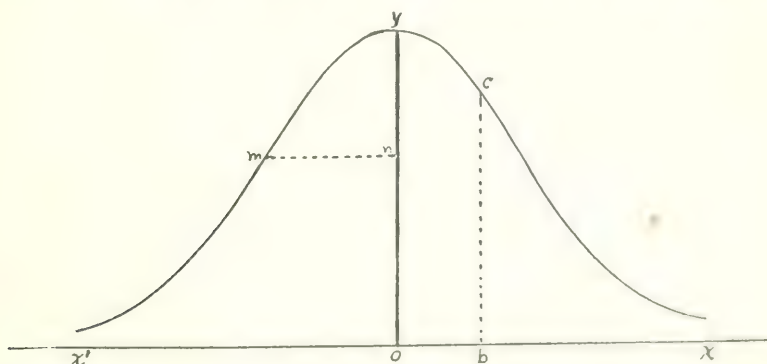


FIGURE 2

⁶ In theory the curve and base never meet, the lines being in asymptote, but for practical purposes they are considered as meeting at some given distance from the mean. It is in this sense that we may speak of the surface included between the curve and the base.

Figure 2, *ob* is 1 P. E. distance and *bcyo* includes 25 percent of the surface *x y x'*.

Likewise, Sigma or the standard deviation, as a function of the normal probability curve, is the perpendicular distance to the mean ordinate from the point on the curve where it changes from concave to convex; *mn* in Figure 2 represents this distance.

Both Probable Error and Sigma, being functions of the normal probability curve, bear constant relationship to the curve regardless of the variability of base and altitude. Through easily accessible tables, the amount of area included by the curve, mean, base, and an ordinate erected at any given Probable Error or Sigma distance, can be found.⁷

Buckingham, in the development of his spelling scale, used Probable Error and arbitrarily broke off the curve (which theoretically forever approaches the base but never meets it) at ± 4.6 P. E. This disregards but about one-tenth of one percent of the total surface on either side of the mean.

Ayres, in making his scale, used Sigma and arbitrarily broke the extremities at $\pm 2.5 \sigma$ which disregards about six-tenths of one percent at each end.

After considerable experimentation, the writer decided to follow Ayres and use the $\pm 2.5 \sigma$ curve for the following reasons:

1. In practical schoolroom work it is doubtful if it is worth while to differentiate spelling differences of less than one percent. To extend the curve beyond $\pm 2.5 \sigma$ which is approximately the same as ± 3.75 P. E., necessitates this finer differentiation.

2. Since 893 words⁸ are common to the Ayres Scale and this study, the use of the same form of distribution would permit comparisons not possible otherwise.

PLACING WORDS IN THE SCALE

Having assumed the normal probability curve, and having decided upon the measure of variability to use and the limits at which the curve should be arbitrarily broken off, the next problem was to decide on the number of steps into which to divide the base. The spelling accuracies varied in most grades from at or near zero on some words to at or near 100 percent on others. That is, there were some words which children of any grade spelled with perfect or nearly perfect accuracy while there were other words which were missed by all or nearly all the children.

⁷ For further discussion of the theory of the normal probability curve, the reader is referred to: Rugg, H. O., *Statistical Method Applied to Education*, Ch. VII.

⁸ There are 893 words which appear in both studies which are identical in form while there are 25 others which differ in suffix only. Of these, 10 differ in the suffix "e-d" and 5 in the suffix "s."

In theory the number of steps or divisions into which the base may be divided is infinite, but practical considerations limit the number to but a few. Since our assumption of normal distribution predicates that the number of very good and very poor spellers are few, it is necessary to make finer discriminations between those percentages lying near the extremes of the scale than between those lying near the middle. The larger the number of steps or divisions into which the base is divided, the finer the distinctions drawn all along the scale, but especially is this true near the extremes. As has been stated, however, a finer discrimination than whole percentages can hardly be justified in an instrument designed for practical schoolroom measurement. On the other hand, but few divisions would tend to cover up differences which should be revealed.

Again, after much experimentation it was decided that the division of the base line into twenty-five equal steps, as Ayres did, gave the best results since it permits single whole percentage discrimination of differences near the extremes and does not group together too large percentage differences in the middle.

If there were an equal number of each grade of ability, excellent, good, fair, poor, and very poor; that is, if the frequency surface were a rectangle, then the percentage valuation would be very satisfactory. But we know this is not true and have assumed the distribution to be that of the probability curve instead. Therefore, words which differ by a single percent in the accuracy of spelling do not always represent equal differences in difficulty. Reference to Figure 1 will show quickly that the linear distance between two ordinates so erected as to include between them, the base and the curve, one percent of the whole surface will differ much depending upon whether the ordinates are erected near the median or near the extremes. One of these twenty-five parts into which we have divided the base will underlie approximately nine percent of the surface if located at the median, about four percent if located midway between the median and the extremes and only one percent if located near the extremes. It is this recognition of the type of distribution of ability which makes the percentage evaluation unsatisfactory.

On the basis of the accuracy of the children's spellings, each word was then placed in its proper step or position on the scale. Because it was thought that students of experimental education might care to have the finer distinctions which are not afforded by the step position alone, it was decided to keep the percentage groups within the steps of the scale separate and designate the exact percentage accuracy with which each word was spelled by the children.

If the difficulty of words be defined in terms of differences in position among the steps of the scale, then the words which lie in a single step are of approximately equal difficulty and the words in one step are as much more difficult than those in the previous step as the words in any other step are more difficult than those in the step preceding it. That is, the degree of difficulty between steps is constant throughout the length of the scale.

It will be perceived, of course, that the difficulty of spelling a word is thus defined in terms of the accuracy with which children in a given grade responded to the word under the conditions described in this monograph. It has nothing to do with the inherent difficulties of teaching or learning the word except to the extent that these may be reflected in the accuracy of the spellings of the pupils.

Throughout this monograph, spelling ability is spoken of in terms of efficiency of performance. The only measure of ability which we have for mental traits is in terms of performance. This is common usage and we believe it is perfectly justifiable. We measure ability to read, ability to add, ability to hit a target, ability to lift a weight, etc., in terms of performance. In all these activities, we find by measuring a large number of cases that a few are very good, a few very poor and the majority of all cases occupy an intermediate position. In other words, these various abilities distribute themselves about in the form of the normal probability surface of frequency. It has been the assumption upon which these scales have been built, that spelling ability, ability to do this particular thing under the given conditions, is distributed in this same manner. The scales do not concern themselves with the child's inherent capacity to learn to do, or the difficulties inherent in the words themselves.

SECTION VI

USE OF THE SCALES

These scales lend themselves to at least three uses, namely, (1) measurement of status of spelling ability, (2) measurement of growth in spelling ability, and (3) a minimal spelling list for teaching purposes.

Each word having been placed in the scales on the basis of the accuracy with which children in the respective grade spelled it when presented in ordinary list form, any teacher, principal, or superintendent may use the scale to determine how well his own class or school can spell any group of these words in comparison with the children of Iowa as a whole. In making this comparison, the following things should be remembered.

1. That to secure comparable results, the words should be pronounced in accordance with the original instructions (See page 143) and the words scored according to the criteria stated on page 15.

2. That these spellings were from pupils who had on the average completed approximately one-half of the year's work for the grade. Tests given at the beginning or end of the year's work should be interpreted accordingly.

3. That to secure equally reliable results, a much larger list of words must be used with a small group of pupils than with a large group.

4. That in general, words located near the middle of the scale, those with an accuracy of 35 percent-65 percent, are probably more reliable for measuring purposes than those near the extremes.

Words spelled with 100 percent accuracy furnish no test because all the children have mastered them. Some of them could undoubtedly spell much more difficult words. Likewise, words which are missed by all the children furnish no test since we have no means of knowing how much too difficult they are. Since there are many possibilities of wrong spelling against one possible right form, it is probable that 50 percent represents the maximum point of critical measure of a group. This conforms with the experimental work of Otis. (33)

MEASUREMENT OF STATUS OF ABILITY

In using the scales for measuring class and school status, it should be kept in mind that words of differing percents within a step are of approximately equal difficulty but to equalize even small differences, a random selection of words from all the percentage groups in a step should be made and these words pronounced as an ordinary spelling test without instruction or previous study. If the average of the class is the same as the average for the step or within the limits of the percents listed under one step, the class has a spelling status on these words about the same as the children of like grade in Iowa. If the class average reaches a percent higher than the highest listed under the step, the class is above average; if below the lowest listed under the step, it is below average.

A word of caution is perhaps in place. The teacher in using these scales must remember that the fundamental assumption upon which the scales have been built is that spelling ability distributes itself according to the normal probability surface of frequency. It must not be expected, therefore, that all the children in her class will spell all the words in a given test, even though

the words are chosen from a single step on the scale, with the same percent of accuracy. A wide range of variation is to be expected and a very narrow range would be quite unusual. Further, the words in a step have been placed there as of approximate equality on the basis of a large number of spellings and it is not to be expected that, with a small group such as a class, the accuracy of spelling on each of the words will be equal.

MEASUREMENT OF GROWTH OF ABILITY

In measurement of growth, two objects may be distinguished, (1) the measurement of growth or change due to a term or year of school work, and (2) the measurement of growth or change due to the use of a special method, device, or time variation during a greater or less period.

The first measurement will probably be the one of most significance to teachers and superintendents, and gross differences will be of greatest interest. For this reason, the differences may well be considered mainly in terms of step changes.

The second measurement will be of primary interest to special supervisors and students of experimental education. Since these persons are interested in more refined results, they should consider the individual percentage groups within the step. Whole step differences may frequently be larger than the changes brought about by the conditions involved in the experiment.

A MINIMAL SPELLING LIST

This list presents with a high degree of accuracy the words which people use most frequently in written correspondence. For this reason it is highly important that pupils in the elementary school learn to spell these words. By using the words of the scale as the material for regular class instruction, teachers may note class improvement, but they must recognize that as a scale it is becoming less and less valuable as a measuring instrument. However, the writer agrees completely with Ayres when he says, "Probably the scale will have served its greatest usefulness in any locality when the school children have mastered these words so thoroughly that the scale has become quite useless as a measuring instrument." (34)

SECTION VII

LIMITATIONS OF THE SCALES

The scales presented herewith are subject to certain limitations, some of which will be discussed in this section.

NUMBER OF SPELLINGS USED

In general, with a random selection the reliability of results increases as the square root of the number of cases involved. In the following scales, the number of spellings on each word in each grade was 200 or more. This number was selected as being a sufficient number to give a degree of reliability acceptable in this type of measurement.

However, in order to ascertain the range of variability which might be expected on the basis of 200 spellings in comparison with a larger number, 700 spellings were selected at random on a list of 100 words. The accuracy of spelling on each word was checked out per 100 spellings and three combinations of 200 each were compared with the accuracy of 700. The spelling accuracy of the 100 words in the 700 spellings varied from 100 percent for the three easiest words to 11, 15 and 20 percent respectively on the three most difficult words.

Since the words were to be placed in the scales in terms of steps of equal value as stated previously, it was thought that this examination of reliability of placement should be in terms of steps rather than in terms of percent. The total scale was divided arbitrarily into three-step groups on each side of the middle step. Then the three on each side adjacent to the middle step and this middle step were thrown together since there seemed no valid reason for keeping them separate, the percents in each step being symmetrically placed above and below the middle step. When the 100 words were distributed according to this grouping on the basis of accuracies obtained from the 700 spellings of each word, it was found that there were 12 words in the easiest group, 32 in the next, and so on as shown in column four of Table II.

Next the accuracy for each word on the basis of each of the first, second, and third 200 spellings was taken from its accuracy

TABLE IV. AVERAGE DEVIATION OF SPELLING ACCURACY IN TERMS OF SCALE STEP OF RANDOM SAMPLINGS OF 200 SPELLINGS FROM THE ACCURACIES OF 700 SPELLINGS.

Accuracy in Percents on 700 Spellings	Number of Scale Steps Within These Limits	Average Range in Percent Included in One Step	Number of Words in Group	Average Deviation in Scale Step		
				First 200	Second 200	Third 200
98-100	3	1.00	12	.42	.42	.42
91-97	3	2.33	32	.55	.60	.63
77-90	3	4.67	20	.49	.69	.41
24-76	7	7.57	33	.38	.27	.34
10-23	3	4.67	3	.50	.97	.93

on the basis of the total 700 and the average difference of deviation of all words within the group was determined. This average deviation in terms of percent was then converted into average deviation in terms of scale step by dividing by the average range in percent included in one step.

From these data it is concluded that since the average variation is less than 0.7 of a step in all cases but one, and is 0.5 of a step or less in more than half the cases, 200 spellings is amply sufficient for the degree of accuracy required in placing the words in a scale of this type.

DISTRIBUTION OF SPELLINGS

It may be considered a limitation on the scales that all spellings used were secured from Iowa school children. The answer to this is two-fold: (1) that the scales were designed primarily for service to the school people of the state of Iowa. From this standpoint this limitation becomes a positive recommendation. (2) On the basis of a state-wide study of spelling, involving 8818 children in Grades III to VIII inclusive, on spelling tests devised from the Ayres scale, the school children of Iowa spell with about the same average accuracy as children in the 86 cities involved in the Ayres study. This is shown by Table V.

TABLE V. COMPARATIVE SPELLING RESULTS: AYRES SCALE AND 27 IOWA CITIES. 20 WORDS, LIST SPELLING.

Grades	Third	Fourth	Fifth	Sixth	Seventh	Eighth
Number of Children	1620	1635	1841	1338	1228	1156
Iowa Average Scores	73	85	74	83	77	86
Ayres Standard	73	88	73	84	73	84

The table is read as follows: 1620 third-grade children spelled the 20 words with an average accuracy of 73 percent and the Ayres standard for these words is also 73 percent; 1635 fourth-grade Iowa children spelled the 20 words with an average accuracy of 85 percent while the Ayres standard on these words is 88 percent. The number of children and the average accuracy for Iowa children and the Ayres standard for the other grades are read in the same manner.

WORDS GIVEN IN LIST FORM

It is recognized that the spelling of words in list form does not give an exact measure of the accuracy with which children will spell words in their ordinary daily work. This condition is perhaps more closely approximated by a timed-dictation test. In neither case, however, can we be certain that the ability displayed

is exactly the same as that which will function when the child is writing spontaneously. These scales do present the accuracy with which children did spell these words when presented under the conditions described in the monograph.

WORDS OF VARYING DIFFICULTY PRESENTED IN THE SAME LIST

Making up the list of words on the basis of approximately equal distribution of words of high, median, and low frequency in written correspondence necessarily brought into the same list, words of widely varying difficulty. How far this tends to produce an inaccurate result in the spelling of the common words is not definitely known.

Due to the fact that 23 words were duplicated in the lists sent out, it is possible to make some comparison between the accuracy with which words were spelled when they occurred early in the list, preceded by words which were comparatively easy, and when the same words occurred late in the list, preceded by words of greater difficulty. Thirteen of these 23 words involved this situation of appearing one time rather early in the list and a second time rather late. A comparison of the accuracy with which the children in each of the different grades spelled the word when it occurred early in the list with the accuracy with which it was spelled by children of the same grade when it occurred late in the list, showed two things:

1. That in all grades there was a somewhat higher average accuracy on the words when they occurred early in the list, though some words showed the opposite situation. The median increase in accuracy in the seven grades on words occurring early in the list over the accuracy on the same words when occurring late in the list was but 2 percent. This difference in accuracy was greatest in the third and fourth grades, though a priori judgment had decided that this factor would most affect second grade children and have less influence thereafter from grade to grade.

2. The average difference of spelling accuracy in these two grades which seemed to be most greatly influenced by this factor was practically identical with the range of percents included in a single step in the portion of the scale in which these words appear.

Since these words were placed in the scales in an intermediate position determined by the average accuracy of spelling in the two positions, it is quite certain that no word is misplaced more than a single step. It is probable that half the words are misplaced less than half a step (that is, not at all in the scale) due to this factor.

NO ZERO POINT ON THE SCALE

These scales in common with the Ayres scale, place the words on the basis of relative difficulty rather than absolute difficulty from a point which would indicate no ability at all. Because of this limitation, it is not possible to state that words appearing in any single step are so many "times as" difficult as words appearing in some other step. It is only possible to state that words in any step are as much more difficult than the words in the step preceding as the words in any other step are more difficult than the words in the step preceding that. In other words, the inter-step difficulty is approximately equal throughout the scale.

From the standpoint of practical usage the lack of an absolute zero-point presents no serious objection. In the measurement of progress, school people are interested in making comparison with norms and with previous status rather than in determining "times as" relationships. For this reason, a zero-point was not considered of sufficient importance to justify the large amount of additional work which would have been necessary to have secured it.

SECTION VIII

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SECTION IX

THE IOWA SPELLING SCALE

GRADE II

GRADE II

STEP 5—94%		in	get	singing
95%	let	that	play	they
day			some	with
it		82%	told	68%
94%	did		75%	age
and	look		ball	am
is	so		cannot	box
me	tell		hat	came
			ring	going
			this	hill
STEP 6—92%	STEP 9—79%		74%	its
93%	81%	them		like
he	have	wind	73%	mad
to-day	no			pig
92%	up	cold		playing
are	will	door		red
at		girl		ship
91%	80%	lot		thank
can	big	or		top
	but	think	72%	67%
	land			call
STEP 7—88%	old	bee		end
90%	say	doing		far
all	ten	got		from
the	79%	May		give
you	ago	sat		had
89%	an	three		stop
be	hand	toy	71%	66%
go	hen			free
88%	into	baby		ice
dog	of	eat		king
not	on	has		pin
see	us	home		put
she	78%	pie		65%
87%	as	seeing		bed
boy	last	then	70%	being
may	man			by
my	to	bad		fast
was	tree	dad		feet
	your	looking		fill
	77%	much		find
STEP 8—84%	away	thing		flat
86%	cat	time		green
good	fat	year		lay
85%	gold			made
book	out	STEP 11—66%		Miss
for	run	69%		night
if	way			one
84%	we	bell		sun
little		cap		64%
83%	STEP 10—73%	corn		bat
come	76%	five		glad
do		hit		grass
his	cow	love		her
how	dear	over		

inside	lost	cake	52%
make	papa	coat	about
milk	pen	holding	art
most	poor	left	ate
must	rich	morning	cool
net	room	nut	fell
same	seen	plan	life
telling	snow	rose	low
63%	sold	shop	near
hot	soon	slip	pass
name	sport	stove	place
now	take		rug
wall	took	STEP 13—50%	saying
	west	54%	sell
STEP 12—58%	what		spell
62%	58%		spot
apple	aside	ask	within
band	asleep	bear	51%
bill	fun	beside	around
each	him	blow	city
fall	landing	born	forget
nine	miss	dust	hall
when	mother	farm	just
yet	pay	feed	kind
61%	sin	finding	list
bid	state	helping	pick
cup	tip	lake	stay
down	57%	late	Sunday
ever	can't	long	town
kiss	cut	post	upon
mill	fish	price	wife
part	food	ride	50%
rest	grade	seed	been
school	hay	song	bit
send	here	too	black
six	met	well	blank
tent	rain	53%	brand
till	sleep	along	car
want	wet	bank	fee
60%	56%	belong	gather
bay	child	date	grand
cent	game	deep	head
forgot	keep	foot	hers
gave	lift	happy	print
hold	mud	joy	shall
live	rock	kill	side
Mr.	sit	noon	silk
sent	small	plow	sis
stand	tenth	sad	spring
standing	than	said	tie
week	there	set	very
wish	trip	shot	want
59%	win	snowing	40%
best	yes	two	arm
bring	55%	under	display
income	after	war	faster
	back	where	finger

gate	while	44%	colder
Jan.	why		cooking
mind		46%	football
nap	barn		hand
never	became		however
our	become		June
read	blue		leg
rod	bog		lone
roll	coming		lump
soft	fair		nothing
spent	ford		older
step	gland		once
street	hear		outfit
such	help		river
wanting	lived		sixth
	maker		stood
48%	mine		these
bake	open		tile
begin	rent		to-night
drop	rip		winter
feeding	shut		41%
four	slow		bright
gray	son		drive
hard	sort		felt
inch	sort		fit
letter	who		fort
note	window	43%	glee
paper	wood		hog
pine			inform
raining	STEP 14—42%		lie
rate			master
real	45%		only
sheep	banker		pa
starting	behind		page
thanking	better		park
wide	bird		report
wool	butter		seem
work	calling		seven
47%	cash		skate
able	drug		something
cord	face		start
fine	found		teaching
form	gone		wage
glass	grant		walking
goldfish	kid		whenever
light	lady		wishing
mamma	luck		40%
meat	mail		any
nor	mate		apart
oh	might		brother
order	nice		bunch
plate	rust		buy
sight	stamp	42%	care
sister	still		chop
sweet	store		cream
thin	table		forming
were	without		gown
			bringing
			card
			clear
			corner
			dark
			dinner
			fishing
			mend
			north
			off
			past
			rush
			show
			smart
			stone
			tend
			test
			thinking
			trust
			try
			wild
			willing
			working
			yourself
			blame
			boat
			both
			close
			damp
			drum
			even
			handed
			hoping
			lives
			March
			more
			new
			nose
			ours
			passing
			pole
			pools
			render
			saw
			someone
			sometime
			walk
			added
			asking
			below
			bet
			cane
			cast
			class

herself
hour
hunt
hunting
ink
jump
large
longer
looked
loved
lovely
mark
myself
outside
ranch
reader
rice
saved
short
snap
snowed
swell
training
yellow

39%

afternoon
bugs
camp
coy
draft
drill
evening
feeder
getting
goat
handy
having
homesick
horse
I'll
know
lame
leave
lunch
meet
Monday
neck
printing
reading
renting
right
round
Sat.
shed
sock
spelling
summer

wake
worker
alive
backing
Christmas
clay
could
die
done
egg
Feb.
finish
flower
forgive
garment
given
grip
ha
inclose
kitten
least
ma
number
plum
porch
printed
road
rolling
serap
slide
spend
stiek
stunt
washing
yard

38%

STEP 15—34%

37%

across
again
badly
bite
boss
broke
clothing
contest
cost
cross
dandy
eye
farther
fight
frost
fur
great

harder
himself
keeping
market
move
overcoat
paying
sink
staying
storm
train
whatever

36%

case
clock
closer
darling
don't
farmer
filing
forth
hate
held
herewith
inasmuch
need
next
oldest
other
own
pack
rack
rank
roof
sick
sorry
south
supper
tank
teeth
their
wash
which
won't

35%

air
also
amt
base
blood
catalogue
chair
chill
church
clean
cooler
cover

deal
fifty
fire
first
fresh
Friday
grit
ground
happen
killed
kinder
kindest
liver
longest
noted
pink
posted
recall
sack
safe
sending
sum
taken
trade
word
write

34%

alone
bean
beg
began
bother
boxes
delay
everyone
feeling
fellow
filling
gift
handsome
hardly
hole
indeed
insist
July
kindly
listed
loud
meal
mostly
mouth
near
Nov.
Oct.
oil
picking
pinto

riding
row
says
shame
shortly
sir
somewhat
space
spending
taking
tiny

33%

bench
called
dice
dose
east
eve
fear
half
holder
house
ill
intend
later
less
mean
meeting
peach
pending
profit
rabbit
remind
renter
sash
saving
soap
spoke
those

32%

adding
agree
ahead
belonging
catch
cattle
check
clever
club
count
covering
dead
deed
dress
every
father
file

flesh
folder
gas
gladly
lighting
likely
linen
making
many
pain
poorly
race
seat
seventh
shade
slept
stage
stating
ton
water
whereby

31%

act
asked
baking
beat
chose
creep
enter
floor
folk
funny
grandma
grind
job
nearer
needing
newspaper
none
pound
protest
sale
shape
smaller
stair
stock
teach
waste
white
woven

STEP 16—27%

30%

another
banking
begun
blew

chairman
change
charge
children
chum
crib
crop
deliver
drew
few
forest
fourth
frame
harvest
herein
hundred
I'm
joke
limit
larger
pair
party
please
post card
scout
showed
sooner
sound
strongly
together
treat
trunk
understanding
washed
weak
wonder

29%

amount
awhile
beef
before
belt
birthday
booklet
brick
closing
dearest
dearly
depend
depending
fail
fix
front
grew
hair
handling
hearing

heat
household
merry
Mrs.
named
payment
per
printer
rained
shipping
thick
thus
true
trying
visit
warm
you'll

28%

add
attending
basket
Bible
brought
brush
calf
cheer
Dr.
drilling
fitting
garden
gee
likewise
manage
mighty
nearly
present
selling
sleet
speed
stranger
sunshine
talking
thankful
track
trained
workmanship

27%

anyone
behalf
block
cared
carpet
carrying
chapter
cleaner
cleaning
cloth

coffee	unless	kisses	prior
content	wanted	lace	prize
credit	wheel	largest	proper
dare	yesterday	lose	pump
Dec.	yoke	maid	pupil
does	25%	member	pure
extent	all right	membership	regard
former	body	o'clock	regret
growing	delighted	oven	remit
housekeeping	dressed	partly	respond
idea	dresser	planted	sand
lining	eight	proud	September
maple	everything	rail	team
nobody	family	removed	throw
opened	glove	rented	understood
packing	heap	sheet	walked
paint	inclosing	shipment	would
self	jar	shoe	22%
strike	loss	sire	absent
strongest	lung	started	adjust
sure	mailed	tight	afraid
tax	marking	township	anyway
teacher	maybe	turned	battle
until	overlooked	twice	beaten
wishes	people	use	board
worked	played	wear	chart
26%	quen	wise	copy
admit	renew	won	disposed
always	seal	world	dollar
branch	silver	worth	dream
coal	somewhere		flour
danger	steel	STEP 17—21%	forty
December	talk	23%	fruit
film	trusting		gain
granted	twenty	almost	glasses
grown	understood	beet	investment
heating	voting	bigger	latest
high	weekly	burn	living
insert	welcome	carry	lowest
isn't	western	closed	lucky
January	wire	cloudy	moved
knew	24%	colt	nearly
mass	army	deeply	news
month	brain	demand	nineteen
ninth	broken	died	oblige
November	crowd	dirty	per cent
oats	early	enjoying	picture
opening	enjoy	finest	pocket
pencil	filled	fixed	quick
point	fund	greater	seemed
press	handled	grove	simple
program	haven't	inviting	sixty
pull	helpful	main	skating
remark	higher	match	soil
saver	invited	October	stuff
thread	joyful	oversight	toward
tire	kept	plain	tried

turn	habit	pillow	seller
velvet	hereafter	plenty	shown
	hereby	quart	sickness
aid 21%	iron	quite	sitting
because	I've	regarding	slight
birth	junk	retail	talked
bought	knowing	rushed	throat
cook	law	seventy	twelve
crew	load	struck	vary
daddy	matter	thereafter	violin
exchange	permit	travel	waited
foolish	powder	tread	weather
frankly	public	Tuesday	weigh
highest	quit	upper	whether
hotel	Sept.	watch	writer
I'd	since	wheat	Xmas
inclosed	single		17%
itself	size	STEP 18-16%	acting
Latin	standard		adopted
latter	supply	18%	artist
loaded	title	above	attain
misses	vote	ache	cabinet
money	wagon	adjustment	chain
moving	wedding	afloat	chance
nerve	whole	already	damage
nicely	withdraw	April	debating
pretty	wrote	benefit	delivered
setting	yearly	charming	else
submit	young	chicken	enjoyed
taste	youth	closely	everybody
tested	19%	company	fifth
third	address	delayed	forgotten
thought	ans.	discount	globe
voter	anything	dispose	haste
wrong	anywhere	extra	hello
20%	blooming	grandfather	independent
agreed	buyer	greatest	informed
among	center	growth	known
attend	choose	hurt	labor
brown	coin	inspect	lamb
busy	counting	invite	lately
buying	doctor	joined	leaf
coach	edge	laid	liked
dance	entry	mailing	management
dated	fact	minister	needed
death	feel	moment	person
debate	forwarding	ninety	power
detail	French	odd	prevent
dwelling	friendly	otherwise	reaches
enclosed	inches	passed	ready
enclosing	item	placed	recently
fare	join	plainly	refund
fever	lumber	postage	rule
forenoon	mister	railroad	sore
forwarded	monthly	reported	study
goose	music	sample	tattooing
grain	perhaps	Saturday	ticket

tired	awaiting	Aug.	uncle
transit	booster	basis	useful
Tues.	bottom	billed	value
used	branches	bowl	waiting
worm	building	buggy	wearing
zero	cheerful	captain	weary
	client	cartoon	wouldn't
advice	comply	change	
advise	devoted	changing	STEP 19-12%
agent	dread	cleaned	
auto	easy	clerk	15%
await	final	clothe	
bottle	finished	control	alfalfa
country	follow	county	aren't
dancing	fourteen	covered	boiler
didn't	fully	dealing	booth
enclose	hasn't	delightful	bushel
fern	hurry	elect	charged
fifteen	ideal	expert	classes
friend	island	failed	clearly
froze	knot	flavor	confined
further	largely	fullest	constant
greeting	liberty	gasoline	dozen
handle	locate	germ	eager
heard	lonesome	gotten	extend
helped	losing	gravy	fairly
hoped	loving	hardware	fancy
intended	mistake	hare	greatly
lesson	outlined	improve	industry
loose	painter	inst.	learn
lower	pastor	kindness	learned
message	presented	ladies	leaves
nurse	primary	loan	level
owe	proved	lonely	lovingly
range	rainy	manual	model
rapidly	raised	mere	movement
raw	repair	method	needle
reach	return	missed	noise
reached	seare	office	owing
reaching	score	ordering	patent
reply	semester	packed	pavement
rubber	serve	placing	pleased
sew	sewing	provided	proof
square	shock	quickly	recent
term	spare	renewed	recovered
that's	speak	respect	remembering
unpaid	stayed	ribbon	served
utmost	suit	serving	shate
whom	temple	should	slipper
wished	therefore	slightly	taught
woman	visited	smooth	thousand
	wait	speaker	topic
	wondering	stated	wasn't
aim		steam	watching
anybody	14%	thanksgiving	women
anyhow	afterward	thereof	year'd
August	ashamed	unable	zone

12%	second	recover	kitchen
answered	server	relation	leaving
apply	settle	remove	length
beyond	skirt	scale	limb
breaking	soldier	spirit	madam
build	tract	splendid	married
candle	using	steady	middle
caught	voice	stopped	misunderstanding
checking	Wednesday	strict	ordered
choosing		subject	painting
coasting	11%	suffering	preparing
color	advantage	talent	properly
comfort	agreeable	tanning	publisher
cough	amendment	taxes	quiet
decline	backed	to-morrow	quote
dependent	bluff	truly	reason
desire	careful	we'll	refer
earth	carefully	witch	remember
eighty	cause	worry	represented
eleventh	caused		result
enrollment	colored	10%	several
fence	cottage	abstract	simply
forward	court	advising	spread
freeze	cute	against	stamped
friendship	delivery	allow	studying
furnish	disgusted	ankle	supplied
gaining	during	answer	text
guess	enough	answering	Thursday
health	entirely	applicant	trace
hence	express	automobile	wonderful
illness	February	Ave.	X-ray
installed	federal	awful	
interest	formed	barley	STEP 20—8%
ivory	formerly	bridge	9%
leader	graze	Bro.	
letting	heavy	button	acre
located	history	cheap	addresses
manner	interested	coast	advance
meantime	interesting	collar	advertising
northern	manager	condition	appeal
obliged	modern	crazy	attach
offering	nevertheless	democrat	attached
organ	notion	destroyed	bass
ought	offered	due	boarding
owned	painted	ease	broad
patch	parlor	enroll	candidate
performed	penny	entitle	carried
problem	piano	field	cheaper
providing	picnic	furnishing	confident
quarter	post office	gallon	consist
rapid	prevented	gentleman	contain
record	promotion	hadn't	contained
refuse	prompt	heretofore	containing
request	promptly	important	continue
rifle	proves	including	convince
safety	putting	information	cotton
season	raising	invoice	credited

customer	united	relative	graduation
daily	vacation	renewal	grammar
dairy	valued	republican	guide
data	view	reputation	heir
dealer	whose	returning	homestead
degree	writing	satisfy	honest
deportment	yourselves	shipped	human
direct	8%	shipper	hurried
discontinued	addressed	sign	improved
duty	advise	situation	increasing
employed	ample	statement	jury
enrolled	argument	station	justify
entertainment	assist	sugar	learning
except	assortment	surprise	leather
favor	attention	thesis	librarian
firm	barely	though	limited
following	believe	touch	listen
fortune	blackberries	towel	literary
girlie	braid	visiting	location
happened	builder	waist	loyal
improving	built	we've	merit
instant	bulk	winner	obtain
instructed	cellar	7%	operation
intention	comfortable	ability	patron
internal	confer	according	perfect
international	continued	acted	perfectly
machine	daughter	active	piece
nation	education	addition	policy
normal	effort	adjusted	prepaid
ocean	establish	administrator	property
pattern	etc.	ambition	published
peace	figure	auntie	question
phone	fuel	between	register
phoned	gained	bracelet	regular
potatoes	gentlemen	break	regulation
postal	German	breakfast	remedy
prefer	good-bye	capital	remembered
president	grateful	cashier	rendered
promised	healthy	checked	resident
proven	meter	concluded	section
raise	officer	consider	seldom
reasonable	opera	considerable	shopping
remain	operated	contract	shoulder
replying	package	conversation	style
represent	payable	cutting	suppose
requested	pearl	desired	thirty
returned	planning	develop	total
ruin	pleasant	director	transfer
running	position	discovered	treated
rye	priced	dodge	vacant
student	Prof.	drama	valley
suggest	protected	entire	
support	provide	exceptional	Star 24-6%
through	queer	explained	etc.
trouble	raiser	fault	account
turkey	realize	fitted	action
uniform	reduce	force	actor

advertisement	ourselves	convinced	submitted
allowed	personal	correct	suggested
although	planned	course	suitable
altogether	popular	deserve	supposed
appear	possess	district	terrible
applied	possibly	doesn't	ticked
appointment	prayer	doubt	volume
average	preacher	earnest	watched
avoid	product	employee	
ballot	prospect	entertaining	
based	really	ere	STEP 22—4%
believing	realizing	estimated	4%
blessed	repeat	example	absolute
calendar	require	expected	absolutely
cherries	retain	explain	accept
choice	route	explaining	accordance
college	saddle	federation	advised
common	sanitary	female	alley
complete	satisfactory	foundation	appearance
congratulate	secure	general	appointed
consideration	secured	group	arrive
contemplated	separate	hauled	arrived
convention	settlement	headache	assuring
copies	silence	honestly	bonus
corporation	slippery	illustrated	butcher
correspondent	studies	include	canvass
couple	subscriber	included	capacity
cousin	surprised	invitation	carrier
curtain	throughout	lbs.	certain
decide	traveling	lodge	circular
decided	treatment	maintain	compelled
desiring	trial	mentioned	constantly
earning	weight	million	correction
eighteen	weren't	minute	crippled
either	worrying	moral	cure
election	worse	narrow	democratic
English	worst	noticed	deposit
entered	5%	opinion	depot
envelope	advertised	owner	described
examination	affair	particular	directed
favorite	amounting	parties	disappointment
figured	attractive	personality	disposal
forced	beauty	pertaining	earliest
graduating	biggest	possible	elected
hesitate	calm	preparation	entitled
holiday	cement	prepared	evidently
honor	central	private	exactly
hospital	chief	quoted	exam.
husband	cigar	reliable	excuse
ironing	cities	reliability	exhibit
judge	combination	requesting	expired
label	commence	reserve	expensive
mention	conduct	salary	expressed
neglect	congratulation	select	fabric
notice	consequently	service	factory
notify	considered	sorrow	failure
orange	considering	stories	future

genuine	union	disease	occupied
graduate	urge	distribution	operating
guest	valuable	division	ordinary
handkerchief	welfare	dreadful	organization
happiness	worthy	durable	organized
headquarter	written	easily	original
immense	5%	employer	parcel
improvement	absence	entering	parent
inclined	accomplish	epidemic	period
increase	accommodate	equipped	practically
inquire	acquainted	error	practice
inquiry	administration	especially	premium
instead	adventure	established	prepare
instruct	agriculture	excellent	presume
investigation	allotment	excited	principal
jobber	animal	exciting	principle
judgment	anxious	expense	privilege
laugh	application	explanation	probably
lecture	appreciated	extensive	proceed
legal	arrange	factor	profitable
library	arranged	factories	promise
local	article	favorable	publication
manufacture	assembly	favored	rec'd
meant	assistant	feature	received
merely	athletics	figuring	recommend
nature	attended	freight	referred
neighbor	author	frequently	regardless
neighborhood	automatic	frozen	relieve
nervous	available	furnace	requirement
nickel	awfully	furnished	reservation
obligation	balance	garage	response
obtained	banquet	geometry	resulting
practical	bargain	ghost	Sabbath
practicing	brief	guarantee	salesman
procured	bulletin	guaranteed	satisfaction
produce	burden	imagine	satisfactory
progress	business	increased	secretary
purchase	carnival	identify	securing
purpose	cedar	indicate	sense
quality	certainly	inducement	society
receive	climate	immediately	straight
reference	collect	installment	subscription
referring	completely	instance	superintendent
refreshment	composition	institution	surplus
refused	concern	investigate	telephone
required	confirming	involved	thorough
respectfully	connected	journal	thoroughly
satisfied	connection	justified	timothy
search	conveniently	knowledge	usually
settled	co-operating	magazine	
signature	couldn't	material	
signed	council	materially	
special	crowded	measure	
surface	debt	mortgage	
sweater	difference	national	
theater	difficulty	naturally	
treasurer	direction	object	
			accordingly
			affiliated
			affectionately
			annual
			annually

SEP 23 1911

anticipating	elsewhere	production	appreciation
appendicitis	engineer	proposition	approved
arrival	engineering	purchased	arriving
assessment	entertain	qualities	assigned
assure	equipment	quantity	assignment
assured	excess	readily	assistance
attempt	exclusively	receiving	associated
attendance	executive	recess	association
authorized	exercise	recite	assume
aware	exhibition	reduction	assurance
beginning	existing	registered	attraction
canned	experience	registration	authority
capable	expression	remembrance	avenue
certificate	extreme	representation	barrel
chautauqua	fashion	responsible	calves
Christian	finally	rough	campaign
circulation	followed	rural	candidacy
circuit	fraternally	selected	celebrate
circus	funeral	senior	channel
citizen	geography	similar	choir
civics	glorious	sincere	circumstances
coarse	gratitude	social	commerce
collection	grocery	solicit	commercial
commission	Hallowe'en	strawberries	community
commissioner	honorable	succeeded	companies
committee	illustration	success	conclusion
communication	importance	successful	conference
companion	impossible	superior	confirm
complaint	influence	supervision	connect
concerning	inquiries	system	consequence
concert	inspector	telegram	considerably
confidence	insurance	territory	constitution
connected	interfere	themselves	construction
connecting	issue	transportation	convenience
conservatory	junior	university	co-operation
consultation	language	variety	cordial
contemplating	legislation	weighed	cordially
contrary	liable	wholesale	corrected
co-operative	liberal	worried	correspond
correctly	literature		crochet
courage	machinery		crocheting
creamery	medicine	STEP 24—1%	coupon
current	mental	accident	dangerous
cushion	merchandise	accomplished	decision
customary	moderate	accredited	decrease
definite	musical	acknowledge	definitely
deliveries	neglected	actual	design
demonstrated	nephew	actually	destination
deserved	niece	admission	discourage
development	organize	advanced	duplicate
different	pardon	advancement	efficiency
directly	patient	algebra	efficient
domestic	permanent	analysis	electricity
doubtless	politics	anniversary	enormous
duties	positive	announce	enthusiasm
effect	preliminary	appeared	enthusiastic
electrical	presence	appreciate	essential

evidence	opportunity	type	disappointed
examine	orchestra	universal	encourage
examined	originally	unusually	equally
examiner	particularly	usual	exact
exception	physician	vision	excitement
exceptionally	pneumonia	zephyr	executed
exhausted	politician		extremely
expecting	possession		familiar
extended	previous		foreign
extension	produced	STEP 25—0%	fortunate
famous	prosperity	acceptance	fundamental
fashionable	receipt	accompanying	generally
favorably	reception	acquaintance	inferior
fierce	reduced	acquire	ingredients
financial	regretting	activity	leisure
furniture	regularly	advisable	majority
generous	relationship	affidavit	manufacturing
government	relieved	agency	maturity
gradually	remained	agricultural	mountain
grippe	remittance	alumni	natural
hastily	representative	ambitious	occasion
humor	resigned	announcement	occasionally
hustling	resource	anticipate	peculiarities
illustrating	scarce	apparatus	personally
immediate	science	appreciating	phosphorus
impression	selection	approval	physical
inconvenience	series	arrangement	possibility
individual	serious	associate	prevail
institute	sincerely	attitude	process
instruction	soliciting	attorney	profession
instructor	specialty	auditor	professional
instrument	stationary	blizzard	prosperous
introduced	stomach	bureau	qualities
introduction	straightened	character	quotation
issued	strength	characteristic	recommendation
license	strictly	collecting	responsibility
lieutenant	struggle	compliment	rheumatism
liquid	studied	confirmation	schedule
mechanical	substitute	continuous	scientific
necessary	succeed	convenient	source
necessity	sufficient	correspondence	specification
neither	supervisor	courteous	unnecessary
notary	supplies	demonstration	unusual
notified	surgery	description	various
numerous	sympathy	difficult	vicinity
official	tuberculosis	disagreeable	
		disappoint	

SECTION X

THE IOWA SPELLING SCALE

GRADE III

GRADE III

STEP 1—100%	92%	boy	looking
in	by	cannot	make
	come	hand	much
STEP 2—99%	get	run	must
is	have	sent	pay
	into	we	put
	may		sand
STEP 3—98%	on	ago	sat
are	one	as	six
good	play	down	snow
he	say	home	sun
it	time	so	yet
	with	toy	
STEP 4—96%	your	when	83%
			after
97%	an		bed
can	for	STEP 8—84%	bring
my	his	86%	cold
see	like		cow
that	man	age	far
	some	bell	foot
96%	the	door	ill
and	them	from	just
be	up	letter	kill
book	way	live	made
day		night	meat
she		or	they
	STEP 7—88%	red	top
STEP 5—94%	90%	thing	week
		till	
95%	big	us	82%
all	gold		back
at	got	bee	ball
but	had	box	black
did	her	came	call
do	of	coat	doing
little	over	forget	five
not	think	going	gave
out	this	most	grass
was	tree	three	green
you	wood	throat	hard
		well	has
94%	ask	what	ink
dear	give		lot
dog	how	apple	mother
eat	if	bad	Mr.
go	land	cat	playing
me	last	fast	ring
old	let	fish	ship
to-day	look	grade	Sunday
year	love	hat	tent
	tell	king	thank
STEP 6—92%	ten	light	there
	then	long	wind
93%			
ice	88%		
will	being		

STEP 9—79%		singing	song	glad
81%		tenth	soon	hero
about		too	spell	hunt
am		town	standing	mine
baby		war	start	note
bank			state	sad
bay	78%	along	told	shop
best		aside	two	sold
each		car	under	stand
feet		colder	want	stop
fill		face	why	table
food		fat	within	thanking
hill		girl		to night
him		goat	STEP 10—73%	wall
inside		hall		win
lay		house	76%	
May		lake	add	bid
more		late	bear	cap
seeing		left	calling	eye
send		March	card	Feb.
sheep		off	care	first
without		oil	corn	flat
work		once	fall	help
yes		rain	find	hot
	80%	same	four	Jan.
away		stay	happy	Miss
boat		take	hear	nice
butter		very	hold	our
cake			joy	pink
cent		77%	keep	print
cut		backing	kind	real
ever		band	longer	said
free		belong	low	saw
lost		blow	never	seen
Monday		cup	park	spent
morning		end	pen	to
new		fell	pin	willing
no		fine	plan	yard
pig		flower	room	
place		fun	seed	73%
read		grand	sleep	better
stove		hay	spelling	bill
sweet		its	sport	cast
went		mad	stone	forget
west		now	summer	goldfish
working		nut	upon	lived
	79%	overcoat	where	lives
become		papa	75%	many
child		part	able	myself
hen		pine	around	net
milk		ride	banker	nine
name		rust	cover	noon
pie		side	dad	open
poor		silk	every	river
rich		sister	farm	rock
school		snowing	Friday	sat
		son	game	saw
				sick

soft	washing	step	those
window	wish	test	took
winter	70%	wanting	walking
72%	afternoon	68%	which
any	barn	arm	white
baker	became	asking	write
blue	can't	bat	yellow
city	children	behind	66%
cook	cream	below	adding
dance	deep	brand	air
die	drive	bright	alive
dinner	dust	danger	belonging
gate	faster	dark	cane
head	father	fair	cattle
helping	gray	feed	clock
inch	heat	fit	coming
kiss	hit	June	done
maker	hog	lady	don't
mate	hour	lone	fire
mill	large	mail	ford
near	mark	north	form
older	mud	nothing	garden
paper	oh	order	gather
picking	outside	race	handed
post	page	rolling	holding
rent	price	sin	kindly
rose	rest	sit	leave
shot	round	spot	ma
store	sell	starting	making
thin	spring	teach	market
tip	train	teacher	meal
were	true	thinking	pa
who	trust	try	paying
wide	water	walk	reading
71%	wife	yourself	report
bird	STEP 11—66%	67%	stamp
brother	69%	art	whatever
date	ate	banking	65%
even	beside	been	added
felt	bit	blank	author
finding	clear	both	bet
forgive	close	clay	born
found	cost	Dec.	bunch
gone	could	fort	cool
kid	dress	glass	hers
landing	drop	hair	hunting
life	fishing	however	income
pick	given	master	January
plow	ground	Nov.	lame
seven	Oct.	plate	met
slow	other	Sat.	mind
stage	rate	seat	move
still	road	shut	right
stood	rug	something	rush
supper	saying	stick	sending
telling		street	sort
		teeth	south

such
talk
wake
wild

64%

ahead
bean
buy
camp
cash
class
delay
drum
feeding
handy
horse
later
lift
neck
next
pack
peach
rank
short
slip
snowed
storm
these
wet

63%

also
brick
cast
clean
cooking
cord
dandy
display
flour
fur
ha
held
indeed
mouth
nap
roof
sound
spend
taking
track

STEP 12—58%

62%

bringing
draft
eight

eve
farmer
fear
few
fight
finger
July
longest
luck
mean
news
nose
own
party
per
poorly
reader
rice
sack
safe
sink
sir
smart
tank
tend
thereafter
tiny
trip
weak
wishing
would

61%

another
April
asleep
blame
brush
chair
coal
contest
corner
dead
deal
dearly
died
fellow
hang
hardly
hearing
herself
hole
inasmuch
kinder
know
larger
list
miss

nor
ours
pass
past
pencil
please
porch
post card
posted
rail
raining
saved
shoe
small
space
sugar
than
their
whenever
worker
yearly

60%

always
apart
asked
bito
block
body
cloth
count
cross
dream
fifty
football
great
job
loved
month
nearly
need
none
outfit
queen
shipment
sunshine
tie
Tuesday
wise
won't
yesterday

59%

across
afloat
beat
begin
blood
farming

harder
holder
jump
kitten
looked
meet
October
only
pain
pillow
pole
roll
sis
sixty
someone
staying
taken
talking
while
wonder
wool

58%

army
case
chop
church
darling
December
everything
forest
gift
glove
goose
half
happen
having
high
leaves
matter
pound
rained
seem
shade
shall
soap
sorry
stated
teaching
thought
twenty
with
word
world

agree
alone
anyone

anything	55%	oldest	color
basket	birthday	packing	creep
bench	Christmas	passing	deed
content	cleaning	point	dresser
egg	closer	ready	heating
filling	evening	recall	homesick
fix	gland	rented	hoping
frost	grandma	riding	island
fruit	hundred	rod	leader
grant	lace	says	learn
growing	least	sight	maid
kindest	noted	somewhat	oblige
lie	number	sore	opened
liver	otherwise	stranger	overlooked
money	pair	swell	rack
oven	planted	township	shape
peace	plum	treat	spoke
reach	pull	use	stunt
renew	pure	wanted	thankful
row	quart	washed	trade
self	ranch	53%	wage
should	saver	boxes	Wednesday
skate	sew	branch	51%
slide	snap	chart	bother
stock	sometime	earth	bugs
warm	speed	farther	carry
wheel	spending	folk	counting
56%	tested	grain	country
again	worked	I'll	crib
aunt	STEP 13—50%	inform	deliver
belt	54%	keeping	early
called	badly	mend	easy
carpet	because	mostly	eighty
check	bought	penny	finish
clothing	brought	powder	folder
damp	cheer	pride	former
enter	chill	quick	forth
floor	club	render	greeting
gladly	covering	saving	hate
law	crop	selling	hereafter
marking	dearest	sheet	lovely
Mrs.	drill	sooner	lumber
nobody	everyone	team	mailed
oats	fee	training	mamma
orange	grandfather	trusting	paint
pocket	himself	welcome	person
printed	inclose	wheat	proper
protest	invited	whereby	proud
rabbit	itself	worth	railroad
renter	leg	52%	shed
silver	less	above	soil
third	load	battle	steam
thread	lump	begun	study
thus	might	cared	thick
tile	November	chain	throw
wishes		charge	twice
		closed	unless

wagon	tire	speaker	housekeeping
youth	trying	ton	invite
50%	48%	travel	inviting
booklet	anyhow	trunk	leaf
brown	before	used	learned
candle	Bible	velvet	liked
depend	broke	wire	loaded
does	copy	46%	loud
grew	coy	afraid	painter
grind	drew	almost	pending
intend	feeder	began	played
killed	front	behalf	pleasure
lighting	heard	between	plenty
lose	herewith	chicken	press
maple	higher	closing	reached
meeting	hoped	dice	simple
nearer	household	enjoy	sleet
opening	listed	fail	Thursday
payment	match	fifteen	together
pools	mister	flesh	tried
pretty	moment	frame	unable
remark	picture	funny	waited
seventy	post office	grip	weather
stair	remind	grown	woman
understanding	rule	inclosed	wrong
walked	seal	junk	44%
weekly	shame	kindness	beet
young	speak	kisses	board
49%	stating	laugh	calf
all right	sum	lesson	cleaned
bog	tax	liberty	company
boss	ticket	living	cotton
bottle	turn	maybe	dare
brain	wear	named	Dr.
busy	47%	neat	everybody
coffee	catch	painted	feeling
colt	change	pleased	filled
doctor	cleaner	printer	gas
fence	clever	shortly	harvest
file	death	strongest	improve
forty	dread	watch	inches
fresh	drug	won	joke
glee	garment	woven	joyful
granted	gee		largest
handle	gown		likewise
I'm	iron	STEP 14—42%	membership
lunch	knew	45%	newspaper
moving	main	ans.	old
partly	member	anyway	pump
people	merry	blew	round
printing	moved	branches	royal
renting	needing	broken	retail
September	nineteen	buying	rubber
seventh	remove	demand	scout
sixth	rip	French	sewing
size	sash	getting	silk
	scrab	grove	warehouse

started
strike
turkey
voter
western
writing
wrote

43%

auto
charming
chose
dated
drilling
enclosed
filing
finest
handling
helpful
hurt
I'd
idea
insist
latter
leather
lower
mighty
office
plain
present
quite
recover
removed
running
smaller
that's
Tues.

42%

afterward
amount
birth
classes
friend
glasses
globe
grip
handsome
hurry
learning
needed
patch
postage
quickly
return
Saturday
second
Sept.

sure
twelve
understand
worm
you'll

41%

act
agent
among
ashamed
Aug.
Ave.
awhile
cause
chairman
cooler
delighted
extent
fourth
fully
heat
herein
jar
likely
loving
music
phone
potatoes
power
prize
profit
prove
range
reaching
respond
sale
sample
steel
until
wedding
women

40%

already
answer
anybody
anywhere
boiler
burn
chance
cloudy
dose
dozen
dressed
fifth
follow
frankly
fund

gallon
hardware
insert
knowing
known
latest
meantime
monthly
nation
program
raw
settle
sitting
slipper
taste
trace
waiting
whom
writer
Xmas.

39%

address
beef
beg
chum
crowd
damage
discount
duty
feel
knot
linen
loss
manage
packed
painting
perhaps
remit
retain
since
slept
suit
therefore
title
uncle
visit
vote
workmanship

38%

lonely
noise
regarding
reply
reported
seller
sickness
utmost
weary
wished

STEP 15—34%

37%

base
building
buyer
coach
comply
deeply
delightful
dirty
during
fact
fairly
forward
guess
hare
heavy
hereby
history
informed
join
listen
manner
minute
movement
namely
ordering
organ
ought
payable
prevent
provided
quit
reason
remain
seemed
skating
thereof
tight
trained
whole
witch
withdraw
worst

36%

adjust
backed
bottom
buggy
button
catalogue
caused
checking
clearly
county
cutting
dancing
depending
eighteen
field
friendly
further
habit
isn't
lamb
leaving
lucky
mailing
misses
mistake
nerve
nevertheless
owing
pearl
proved
quarter
ribbon
setting
showed
spread
talked
Thanksgiving
tired
tread
treated
wait
watching

35%

August
awaiting
bigger
bulk
center
chapter
daily
enclosing
express
failed
family
fixed

haven't
highest
inclosing
outlined
placing
remember
serve
share
single
skirt
strongly
thirty
toward
visiting

34%

advise
agreed
break
Bro.
choose
coast
court
devoted
dollar
figure
film
frozen
gravy
handled
kept
letting
performed
repeat
scale
shopping
submit
through
value

33%

carrying
changing
collar
daddy
dealing
dispose
edge
fancy
fever
fitting
forwarded
illness
intended
kitchen
lung
mass
obliged
o'clock

permit
raised
rushed
score
shoulder
soldier
waist
waste
wonderful
zone

32%

acting
build
builder
changed
comfort
debating
delivered
desire
disposed
eleventh
enough
exchange
fourteen
froze
fullest
gum
greatest
homestead
independent
inspect
labor
lowest
needle
nicely
ninth
officer
oversight
owe
placed
providing
quiet
reaches
server
shone
simply
square
stuff
though
understood
voting
whether

31%

absent
await
beaten
clerk

crazy
cunning
elect
expert
extra
finished
forgotten
formed
forwarding
hotel
item
I've
level
lining
lonesome
narrow
ninety
parlor
picnic
proof
recovered
returned
season
served
shipping
thousand
truly
upper

SEP 16—27

30%

advice
barrel
board
careful
caught
cheated
cheaper
cheerful
credit
cruel
else
enclose
enjoying
February
foolish
helped
invoice
nickel
nurse
painted
provide
raising
resist
record
rough

sign
slight
struck
vacation
worry

29%

admit
alfalfa
answered
breakfast
checked
cherries
covered
dealer
enjoyed
explain
extend
German
laid
Latin
losing
pavement
per cent
prevented
proven
queer
raise
recent
recess
remembering
request
rough
sire
smooth
supply
temple
to-morrow
turned
unpaid
using
worse
yoke

28%

built
cheap
colored
consist
decline
delayed
fern
gain
haste
ideal
joined
ladies
locate
lovingly

middle
notice
passed
patent
phoned
pupil
putting
repair
saddle
stayed
studying
taught
taxes
touch
united
valued
voice
we'll

27%

addresses
aid
attend
blessed
booth
bridge
carefully
coasting
confined
contain
detail
entry
factory
furnishing
happened
holiday
including
instead
investment
largely
loose
ocean
respect
returning
ruin
secure
standard
statement
suffering
surprise
throughout
useful
vary
violin
zero

26%

aim
amounting

artist
beyond
bowl
closely
continue
contract
cure
delivery
dreadful
ease
explained
favor
force
gaining
gentleman
graze
health
hence
honest
improving
limit
married
preacher
properly
public
refund
serving
shock
spare
stamped
trouble
watched
wearing
wondering

25%

acted
amply
ankle
answering
balance
barley
blooming
captain
clothe
common
control
cough
crew
dairy
didn't
either
entering
excuse
forenoon
good-bye
greatly
instant

loan
offering
package
perfect
piano
problem
promise
rainy
recently
renewed
requested
stories
towel

24%

active
adjustment
billed
circus
cousin
cripple
dodge
figured
friendship
furnish
hasn't
hello
industry
inst.
interesting
lately
management
mention
model
obtained
ordered
owned
primary
prior
property
rapid
refuse
suitable
text
whose
wouldn't

STEP 17—21%

23%

advance
aren't
breaking
carried
cellar
contained
containing
explaining

formerly	entertaining	prompt	tattooing
freeze	entire	quoted	uniform
gentlemen	ere	rapidly	worrying
group	etc.	receive	
guide	except	refreshment	
headquarter	flavor	rendered	STEP 18—16%
interest	following	replying	18%
language	hurried	require	addressed
manager	improved	search	attain
message	jury	silence	avenue
pastor	maintain	situation	avoid
postal	method	splendid	butcher
presented	owner	stopped	cartoon
slightly	promised	weigh	climate
sorrow	represented		companion
talent	strict	19%	couple
treatment	suppose	advising	described
22%	tract	apply	employed
abstract	traveling	argument	enrollment
actor	visited	booster	example
animal	wasn't	cigar	final
attending	winner	confident	information
bluff	written	creamery	intention
boarding	you'd	due	interested
dependent	yourselves	favorite	lecture
earnest	20%	fortune	lodge
enroll	addition	fuel	mentioned
entered	adjusted	furnace	notion
fare	advantage	furnished	offered
firm	advertised	guest	operated
headache	alley	handkerchief	popular
healthy	aware	husband	prepared
pattern	beauty	important	procured
publisher	cabinet	include	Prof.
rye	client	included	prospect
seldom	constant	installed	raiser
steady	convention	ironing	refused
studies	decided	jobber	republican
surface	deportment	minister	reserve
term	deserve	normal	safety
transit	direct	obtain	semester
21%	dwelling	planning	settled
adopted	enrolled	pleasant	slippery
against	female	promotion	spirit
agreeable	figuring	protected	22%
allow	fitted	question	although
amendment	gained	realize	benefit
attach	growth	refer	busiest
automobile	honestly	represent	cabin
bass	honor	required	carrier
believe	increasing	satisfied	commutable
burden	limited	select	condition
chief	located	settlement	demand
degree	machine	several	desiring
desired	missed	station	effort
discovered	modern	student	election
English	northern	subject	entertainment
		support	

expressed	theater	separate	doubt
fault	tickled	valley	exciting
grocery	topic	14%	extended
hadn't	vacant	adventure	famous
human	we've	advertise	followed
instructed	15%	affair	foundation
ivory	advertisement	applied	freight
length	advertising	assist	general
local	altogether	auntie	girlie
loyal	appear	barely	graduating
nature	based	basis	graduation
piece	bracelet	candidate	heir
prepaid	canned	capable	inclined
produce	choice	capital	inspector
really	combination	concluded	location
relation	correct	conduct	meant
rifle	customer	confer	parcel
shipper	cute	consideration	period
sweater	destroyed	continued	personal
weighed	district	copies	positive
16%	drama	course	prefer
ambition	entitle	excited	production
average	equally	expecting	realizing
bargain	expired	factor	salary
blackberries	gasoline	fashion	sanitary
consider	importance	forced	satisfaction
considering	increased	judge	secured
contemplated	international	library	selection
conversation	madam	manufacture	stomach
daughter	manual	operation	success
decide	measure	parent	telegram
depot	meter	product	telephone
directed	misunderstanding	quote	total
direction	moral	relative	welfare
director	mountain	reputation	worthy
discontinued	neglect	Sabbath	12%
disgusted	neither	studied	advanced
doesn't	object	style	assure
education	organized	tanning	attention
entirely	ourselves	view	believing
federal	pardon	weight	central
future	perfectly		coarse
garage	president	STEP 19—12%	college
grateful	publication	13%	complaint
inquiry	published		complete
lbs.	purpose	ache	congratulation
parties	reasonable	action	considered
patron	reduction	advised	constantly
pertaining	regardless	appointment	contrary
prayer	relationship	arrange	convince
promptly	renewal	braid	different
result	requesting	certainly	duties
route	resident	choosing	easily
service	resulting	considerable	elected
shipped	salesman	couldn't	equipment
struggle	satisfactory	credited	exam.
surprised	scarce	disposal	existing

expected	progress	suggested	arranged
failure	reference	treasurer	article
favorable	register	trial	assuring
heretofore	remembered	valuable	attended
inquire	section	volume	attraction
invitation	straight	worried	attractive
justify	surplus		caves
literary	themselves		caviness
niece	10%	STEP 20 — 8%	carnival
personality	absolute	2%	cashier
preparation	according	absolutely	Christian
prepare	agency	account	cities
priced	appeared	administrator	collect
produced	applicant	arrive	connect
regular	arrived	assured	connected
remedy	attached	banquet	consequently
respectfully	automatic	certain	council
responsible	beginning	choir	current
sense	cement	companies	deposit
signed	commence	composition	description
strawberries	concerning	confirming	design
superintendent	convinced	deliveries	disappointment
transfer	co-operating	democratic	entitled
X-ray	corporation	deserved	exception
11%	crowded	distribution	favorable
ability	data	earliest	instance
appeal	develop	elsewhere	involved
athletics	directly	establish	literature
awful	engineer	established	machinery
calendar	envelope	examination	merit
capacity	exactly	extensive	mortgage
cedar	exhibit	factories	ordinary
concern	fabric	funeral	particular
concert	grammar	genuine	preliminary
conference	happiness	geography	preparing
congratulate	hesitate	hailed	prevail
correction	hospital	honorable	proceed
courage	indicate	improvement	recommend
curtain	influence	neighborhood	representation
duplicate	instruct	nervous	requirement
durable	internal	obligation	rest and
employee	investigation	organize	satisfactorily
entertain	justified	practice	satisfy
evidently	million	quality	secretary
explanation	neglected	received	signature
ghost	nephew	registration	suggest
identify	noticed	reliability	supplied
increase	policy	relieve	supplies
installment	presume	selected	universal
institution	private	strength	9%
label	proposition	subscriber	continued
liquid	rec'd	thesis	affiliated
mere	reduced	thorough	application
opera	registered	union	amount
position	regulation	8%	attorney
possess	reliable	absence	substantial
possible	securing	across	back

channel	submitted	similar	privilege
collection	supposed	society	process
completely	terrible	succeeded	prosperous
confidence	urge	university	readily
connection	weren't	variety	regularly
co-operation	wholesale	vision	serious
cushion			social
dangerous	STEP 21—6%	5%	subscription
debt	6%	accordance	successful
destination	accept	acknowledge	surgery
difference	accomplish	acquire	sympathy
division	agriculture	allotment	timothy
employer	announce	alumni	type
exact	announced	anniversary	usual
exceptional	assigned	anxious	
excitement	assortment	attorney	
exercise	ballot	available	STEP 22—4%
expense	bulletin	awfully	4%
expensive	celebrate	bonus	acceptance
expression	circuit	citizen	accident
extreme	circular	commerce	acquainted
feature	collecting	committee	actual
fraternally	communication	constitution	advancement
furniture	community	contemplating	affectionately
graduate	compelled	conveniently	algebra
hastily	confirm	correctly	annual
illustrated	correspond	correspondence	appearance
inducement	correspondent	coupon	appointed
instruction	decrease	difficulty	appreciated
insurance	demonstrated	domestic	assignment
introduced	disagreeable	doubtless	assistance
legal	engineering	effect	assume
legislation	error	electrical	assurance
magazine	estimated	examine	blizzard
medicine	evidence	exclusively	bureau
musical	excess	fashionable	business
national	experience	federation	certificate
notary	fierce	generally	character
notify	frequently	glorious	circulation
occupied	geometry	government	circumstances
operating	gratitude	humor	conclusion
opinion	guaranteed	illustrating	connecting
organization	hustling	immediate	conservatory
patient	imagine	immediately	considerably
permanent	junior	impossible	convenience
possibly	knowledge	inconvenience	cordially
practical	material	inquires	crocheting
probably	mental	issue	customary
profession	merchandise	issued	decision
receiving	merely	judgment	definitely
reception	neighbor	liable	development
reduce	numerous	liberal	disease
remembrance	original	moderate	efficient
reservation	planned	notified	electricity
rural	quantity	occasion	enthusiasm
special	referring	official	epidemic
straightened	remittance	politics	examined
	representative	principle	

excellent
executed
executive
exhausted
familiar
finally
generous
illustration
instructor
investigate
journal
materially
naturally
opportunity
personally
physician
practically
premium
principal
profitable
purchased
qualities
quotation
recommendation
referred
response
science
series
sincere
strictly
succeed
sufficient
superior
system
thoroughly
transportation
unusually
various

3%

accommodate
accordingly
activity
affidavit
approval
approved
arrangement
arrival
arriving
assessment
association

attendance
civics
convenient
cordial
corrected
definite
difficult
disappoint
discourage
efficiency
encourage
enormous
equipped
especially
examiner
exhibition
extension
favorably
guarantee
impression
instrument
interfere
librarian
manufacturing
practicing
presence
purchase
receipt
relieved
remained
sincerely
solicit
specification
stationary
supervision
territory
usually
vicinity
zephyr

STEP 23—2%

accompanying
accredited
actually
administration
admission
agricultural
announcement
anticipating

appreciate
assembly
auditor
authority
campaign
candidacy
commercial
commission
commissioner
compliment
consequence
construction
consultation
co-operative
crochet
demonstration
disappointed
enthusiastic
financial
gradually
grippe
immense
inferior
institute
introduced
lieutenant
mechanical
natural
necessity
originally
particularly
previous
professional
prosperity
regretting
rheumatism
source
substitute
supervisor
unnecessary
unusual

STEP 24—1%

accomplished
acquaintance
ambitious
analysis
annually

apparatus
appendicitis
appreciation
associate
associated
attitude
characteristic
chautauqua
confirmation
continuous
courtroom
exceptionally
extremely
fundamental
Halloween
individual
ingredients
leisure
majority
maturity
necessary
orchestra
pneumonia
politician
possibility
quantities
resource
responsibility
schedule
senior
soliciting
specially

STEP 25—0%

advisable
anticipate
appreciating
essential
foreign
fortunate
hence
occasionally
peculiarities
phosphorus
physical
presentation
scientific
celebrations

SECTION XI

THE IOWA SPELLING SCALE

GRADE IV

GRADE IV

STEP 1—100%		hand	why	had
all at did dog me thank thing to-day		in	wind	hat
		into	your	head
		last		Jan.
		let	96%	longer
		letter	an	pay
		may	cake	place
		mother	cent	poor
		must	city	ring
		not	corn	river
		old	down	same
STEP 2—99%		on	five	send
and are big book but day dear good have he his is it land like little look May out run see ship tree up was what year you		one	food	some
		over	free	summer
		say	going	sweet
		she	gold	table
		that	hard	then
		think	her	time
		this	how	to-night
		way	live	us
		when	looking	wish
		will	man	work
		with	my	working
			read	94%
			reader	
			red	am
			sand	bad
			south	bed
			tell	bee
			ten	cannot
			we	coat
				end
STEP 4—96%			STEP 5—94%	fast
				faster
			97%	Feb.
		apple		for
		bell		has
		butter		him
		by		just
		cook		kind
		door		king
		eat		Monday
		green		Nov.
		ice	about	of
STEP 3—98%		if	after	papa
		left	age	pig
		love	ago	play
		made	baby	real
		make	bank	ride
		milk	bill	road
		night	box	Sat.
		said	dark	seeing
		school	date	silk
		six	dinner	stove
as away be boy can come each get give go got		snow	do	sun
		state	doing	
		Sunday	east	
		them	ever	
		they	face	
		three	foot	
		top	from	
		under	frost	
			gave	

till
two
wall
where
wood
yet

STEP 6—92%

93%

along
ask
black
blank
call
child
clean
clock
could
cow
cut
eye
home
hot
however
inside
kiss
lake
life
light
Mr.
much
name
near
never
nice
number
Oct.
off
once
overcoat
playing
price
rich
room
store
thinking
toy
walking
well
who
winter
yard

92%

art
aside
back

ball
below
best
bird
blow
card
cat
clear
cold
cream
cup
far
farm
feet
found
fun
fur
hall
happy
hear
inch
joy
lady
large
lay
lived
lot
March
mark
more
mouth
move
no
note
October
oil
report
rest
saw
small
stage
stand
telling
thanking
told
town
want
week
yellow

91%

air
band
banker
bay
belong
beside
better

blue
came
coal
cover
fat
forget
game
girl
gone
hang
help
house
ink
July
June
keep
kid
looked
lost
low
nine
noon
open
page
park
pen
post
put
rain
reading
sat
sell
sent
show
side
singing
sister
so
sport
standing
stay
stick
supper
there
trip
very
water
while
win
window
yes

STEP 7—88%

90%

any
around

bunch
cap
car
case
country
delay
drive
fellow
fill
fine
gate
goldfish
grade
helping
hill
hog
horse
hour
hunt
late
long
meat
most
next
nut
outside
peach
people
pie
plow
saying
shop
snowed
song
spot
sunshine
take
took
walk
war
wash
went
whatever
wife
without
worker
write

back
bear
beam
earth
fell
felt
flat
foam
grass

ground	mail	sugar	stood
hen	maker	taking	street
ill	market	tank	teacher
larger	meal	teaching	wild
leave	mine	trunk	wishing
lunch	money	wheel	85%
new	mud		adding
north	now	STEP 8—84%	also
oh	or	86%	barn
older	our		bean
part	pick	block	boat
paying	pin	body	camp
rock	rail	cattle	colder
sheep	rent	clay	dead
sir	rice	close	deal
snowing	row	count	don't
such	seat	crop	feed
taken	seen	dad	first
teach	set	dandy	fort
test	shipment	December	glass
the	son	die	January
weak	stop	dust	job
willing	tent	eight	know
within	train	farmer	leg
word	trust	fishing	many
would	87%	flower	mate
yourself	add	gather	music
88%	added	hay	nobody
able	asking	heat	plan
afternoon	bat	holding	race
alive	because	inasmuch	reach
arm	become	master	recall
asked	being	mill	rust
banking	brand	Miss	sad
basket	bright	neck	saved
born	brother	nothing	seven
bring	calling	oats	shall
can't	class	order	short
care	danger	outfit	should
children	egg	oven	slow
dance	fire	pine	staying
dress	fish	point	talking
drop	form	porch	tenth
early	glee	pure	trying
even	lives	quick	upon
fall	luck	railroad	washing
finding	meet	round	watch
Friday	morning	sack	wheat
grand	myself	seed	wool
handy	net	sick	84%
here	paper	smart	above
hold	party	space	battle
hunting	plate	spot	been
landing	print	spring	birthday
law	sleep	stamp	bringing
loved	spell	starting	brought
mad	step	still	brown

catch
chair
church
forgive
four
glad
island
kill
kindly
lesson
longest
ma
other
ours
own
pink
pocket
pole
recover
sink
spelling
start
stone
than
too
true
Tuesday
warm
washed
won't
yearly
83%
April
behind
cared
carpet
cash
cooking
cost
counting
dearly
draft
every
farming
father
finger
forest
glove
great
grove
half
harvest
hole
kitten
lump
please
printed

remove
renew
rush
shoe
sixty
someone
sound
speaker
thin
thus
to
were
whenever
wide
82%
agree
anyone
Aug.
aunt
backing
became
blame
bought
boxes
buy
charge
Christmas
died
done
football
given
grandma
grant
gray
hardly
hearing
heating
held
hit
kinder
making
might
moved
paint
pass
passing
person
picking
rate
remark
right
safe
sit
soil
sold
sometime
sort

speak
talk
tip
twenty
unless
used
velvet
wet
white
worked
world

STEP 9 - 79%

81%
again
ahead
another
belonging
blood
boss
bother
cane
cleaner
clothing
contest
dearest
death
display
doctor
dresser
evening
fifty
fight
ford
hair
harder
having
homesick
inclose
later
lone
noted
patch
post card
renter
rose
shot
sin
soon
sum
swell
these
thick
thought
travel
weather

wonder
yesterday
80%
alone
always
apart
ate
bet
between
Bible
board
both
broke
change
cool
cord
covering
cross
drum
eye
everyone
fair
find
floor
follow
granted
learned
high
I'm
inches
income
learned
less
listed
liver
load
mail
mailed
mean
nap
none
per
pain
per
plum
rained
rained
share
sight
sift
sing
stuffed
the
time
wonder
wonder

wear	list	saver	75%
young	lumber	sixth	bit
79%	marking	something	blew
asleep	matter	thereafter	branch
begin	nation	thousand	chart
behalf	nearly	tiny	chop
cleaning	neat	try	closer
darling	officer	which	crib
deed	otherwise	whole	does
feeding	overlooked	worth	dollar
fence	pound		drug
fit	printer	STEP 10—73%	everybody
former	proper	76%	glasses
garment	roof	afterward	heard
goat	sample	amount	holder
ha	sending	beg	I'll
handed	seventh	bench	intend
handle	shade	bite	keeping
invited	silver	calf	kindest
its	size	clever	liberty
jump	somewhere	depend	lovely
leather	speed	dream	merry
mend	spending	drew	mighty
pack	spoke	enough	month
queen	stock	flour	Mrs.
raining	sure	forth	need
rank	Thursday	fresh	newspaper
riding	trade	gallon	office
self	twice	grew	pair
shut	welcome	happen	picture
simple	wrote	hurt	pillow
skate	77%	idea	proud
soap	brick	jar	provide
storm	brush	killed	rack
stranger	carry	met	rented
teeth	check	nose	rip
thankful	closed	painted	rolling
use	colt	pools	rubber
walked	damp	press	scout
wire	Dec.	pride	seem
78%	file	program	seventy
across	friend	prove	shortly
beat	garden	renting	smaller
belt	goose	sash	soft
burn	grain	selling	steel
called	himself	Sept.	stunt
cheer	labor	September	team
cloth	lace	steam	treat
club	leader	their	74%
coming	member	ticket	act
company	miss	tire	ans.
dozen	only	unable	anyway
fail	pencil	understanding	bottle
grandfather	posted	wedding	chance
hundred	printing	wise	chicken
largest	ready	wishes	cotton
lift	rug	woven	fact

farther
field
folder
gladly
guess
heavy
herself
joke
kisses
leaves
match
mostly
news
November
ocean
oldest
ordering
phone
post office
quart
rabbit
reached
rule
shame
sis
sock
somewhat
tend
those
tile
together
trace
track
twelve
uncle
understand
voter
west
witch

73%

almost
anything
awhile
building
coffee
county
dread
dressed
easy
enter
everything
failed
front
fruit
grown
heap
inclosed

inspect
iron
likewise
payment
peace
pleased
remain
returned
scrap
seal
spend
study
temple
vote
wanting
whereby

72%

acting
agent
anywhere
army
classes
cleaned
content
dare
deliver
drill
fear
getting
gift
gown
improve
indeed
kindness
maple
o'clock
odd
planted
postage
protest
providing
pump
roll
seemed
shed
sore
thread
ton
township
turn
wage

71%

answer
ashamed
bid
branches
build

bushel
cast
center
discount
during
eighty
elect
fee
feeling
folk
froze
funny
gain
hate
household
lame
latter
least
living
loaded
mailing
moment
moving
ought
packed
partly
pending
prevent
pull
render
return
rough
saving
sickness
slide
stated
tested
thirty
trusting
visit
wished

70%

anyhow
bog
booklet
coast
copy
corner
depending
enclose
filled
flesh
formed
itself
junk
learn
main

meeting
named
noise
oblige
plain
raised
ranch
reason
repair
rushed
talked
trained
won
wrong
Xmas

STEP 11—66%

69%

afraid
among
Ave.
badly
began
brain
candle
cloudy
court
dated
drilling
family
finish
fourth
French
gee
grind
handling
higher
hoped
kitchen
leaf
mistake
neater
nicely
nor
orange
past
perfect
range
sale
settle
sewing
soap
stompy
suit
title
withdrew

writer	joined	65%	message
zone	lighting	absent	mountain
68%	locate	before	phoned
broad	lung	bugs	picnic
broken	meantime	builder	played
busy	mind	chairman	prize
cause	needle	cheap	raising
demand	nurse	coin	shipping
enjoyed	obliged	colored	shoulder
filling	payable	contain	shown
forward	plenty	delivered	strike
globe	pretty	devoted	treated
greater	slipper	dose	until
greeting	third	frame	valued
growing	through	fully	weekly
health	turkey	gland	writing
hers	value	grit	zero
kept	western	handled	63%
knew	wonderful	highest	auto
knowing	66%	hoping	await
known	afloat	hurry	checking
laugh	all right	inviting	delighted
letting	beaten	learning	edge
perhaps	chain	leaving	excuse
placing	chose	lowest	feeder
poorly	coy	ordered	figure
powder	dispose	painter	finest
raw	enjoy	parlor	fitting
respond	fancy	present	handsome
Saturday	favor	produce	hare
says	fifteen	retail	helped
since	frankly	serve	ivory
stating	gas	share	mister
strongest	history	single	monthly
waist	joyful	sooner	opened
women	lie	square	pearl
worm	liked	taught	penny
67%	lucky	tax	reaches
already	membership	training	regard
August	nerve	understood	sitting
beef	opening	wearv	steady
bottom	owned	64%	waiting
changed	packing	breakfast	youth
changing	power	chapter	
cottage	proved	closing	STEP 12—58%
dealing	provided	earning	62%
dice	remind	extent	birth
expert	spread	extra	breaking
express	stair	fix	chill
few	that's	freeze	chum
haven't	throw	frozen	contract
helpful	vacation	hotel	cooler
hereafter	voice	inclosing	cough
housekeeping	waited	inform	cousin
including	you'll	informed	Dr.
invite		join	enclosed
		lamb	

explain
fifth
fitted
forwarding
greatest
hardware
herein
knot
level
manage
painting
quickly
reaching
refuse
rod
score
station
stuff
thereof
to-morrow
wait
workmanship

61%

blessed
charming
cheerful
clearly
dairy
dirty
disposed
duty
extend
friendly
insist
located
loud
lower
piano
reply
sheet
showed
stamped
subject
though
Tues.
visited
worse

60%

adjust
advise
awaiting
Bro.
built
checked
color
comply
direct

ease
improved
intended
invoice
listen
lonesome
loss
mamma
mass
measure
middle
nature
offering
owe
rapid
recovered
repeat
retain
scare
setting
settlement
sew
skating
tread
tried

59%

anybody
appear
capital
caught
covered
crowd
daughter
exchange
fixed
following
force
forwarded
headquarter
hence
limb
loving
manner
namely
pattern
pavement
per cent
performed
placed
proven
quit
quite
record
request
requesting
respect
woman

58%

address
agreed
base
carried
caused
coasting
collar
comfort
cure
damage
delightful
detail
fever
fourteen
guide
habit
illness
I've
ladies
language
linen
lovely
narrow
needing
nineteen
obtain
organ
season
suffering
Thanksgiving
throat
united
voting

57%

answering
beet
beyond
bridge
crazy
crew
deeply
delayed
eager
eighteen
eleventh
finished
further
homestead
honest
husband
latest
lose
married
misses
needed
prevented

profit
public
shock
surprised
taxes
turned
waste
watching

56%

actor
although
baking
boiler
buying
cheaper
confined
contained
daily
dancing
dealer
feel
figured
foolish
furnish
German
happened
I'd
improving
instead
movement
package
quarter
refund
regarding
reported
saddle
sign
slept
tired
useful
Wednesday
whom

amounting
assured
backed
beating
being
bush
cashed
caves
cupped
dilate
decline
discovered
emptying
estimated

fairly
gotten
grip
industry
isn't
lecture
neglect
nevertheless
notice
plainly
pleasure
production
properly
regret
require
suitable
surface
worst

dodge
fund
future
germ
holiday
insert
ninth
presented
primary
proof
ribbon
scale
struck
supply
suppose
wearing
wouldn't
yoke

52%

STEP 13—50%

54%

aid
aim
barrel
begun
correct
directed
except
flavor
friendship
gaining
gravy
include
intention
loan
obtained
owing
permit
raise
second
seller
spare
tight
watched
winner
yourselves

53%

adopted
bigger
bowl
buyer
continue
creep
cutting
desire

abstract
advance
ample
chief
debating
else
entering
fuel
furnishing
headache
hello
item
likely
machine
maybe
model
oversight
passed
perfectly
postal
requested
secure
seldom
stayed
studies
submit
therefore
treatment
trouble
unpaid

51%

action
attend
balance
beauty
coach
daddy

enrolled
excited
film
fullest
graze
investment
length
maintain
outlined
Prof.
property
rainy
remained
remembering
renewed
server
weigh
worry
written

50%

awful
careful
clerk
closely
conduct
entertaining
entry
factory
February
loyal
minute
northern
noticed
pupil
rapidly
served
sleet
standard
statement
truly
using
wondering

49%

advice
alley
ankle
biggest
burden
butcher
captain
consist
containing
delivery
election
example
expressed

forenoon
garage
gentleman
greatly
lbs.
loose
notion
potatoes
promised
queer
quoted
shopping
silence
sorrow
surprise
throughout
trial
upper
valley

48%

adjustment
animal
avenue
aware
break
calm
central
concluded
degree
deportment
dreadful
either
fern
filing
gasoline
hereby
judge
lately
niece
parcel
prospect
putting
recently
recess
recite
returning
settled
skirt
smooth
splendid
stories
taste
topic
traveling
visiting

47%
addition
admit
aren't
cabinet
cherries
due
fare
lodge
patent
pleasant
quiet
strict
touch
toward
uniform
whether

46%
account
acted
active
addresses
attending
bass
bluff
booster
button
climate
clothe
credit
enclosing
entered
entertainment
forty
hasn't
honor
increasing
mention
pertaining
progress
promotion
refused
regulation
relationship
rye
satisfied
service
several
sire
student
studying
text
tickled
towel
weighed
we'll

we've
whose
worried
worthy

STEP 14—42%

45%
against
artist
companion
considering
couple
exciting
fault
figuring
lining
prompt
question
studied
weight

44%
automobile
booth
carefully
carrying
conversation
destroyed
final
growth
handkerchief
honestly
human
independent
modern
neighborhood
prepaid
problem
replying
required
ruin
serving
shipper
soldier
union

43%
advertised
arrive
average
control
debt
depot
decision
earnest
effort
entirely

ere
explaining
forced
furnace
instant
jobber
jury
mentioned
normal
pardon
parent
popular
rendered
reputation
term
utmost

42%
allow
circus
complete
convention
duties
English
expected
fashion
gentlemen
grocery
included
information
laid
location
recent
shipped
slightly
sweater
view
violin

41%
addressed
apply
blooming
condition
contemplated
dependent
different
drama
dwelling
objected
entertain
extended
famous
favorable
ideal
important
interested
injured

losing
manufacture
minister
missed
object
parties
picco
preparing
publisher
reduced
refreshment
relation
represent
result
rifle
scarce
situation
worrying

40%
agreeable
barley
blackberries
catalogue
creamery
desired
desiring
expired
gained
healthy
hospital
inquire
local
offered
pastor
preacher
prepare
probably
realize
reduce
remember
running
struggle
strong
struggle
strongly
believe
confidence
corner
conscience
convenient
compliment
conscientious
dinner
fact
failure
faint

group	hurried	respectfully	arrived
haste	inclined	strawberries	braid
installed	interest	34%	district
ironing	priced	appeal	exam.
machinery	produced	awfully	general
manager	quote	capable	geography
operated	register	certain	increase
product	republican	cities	largely
promise	talent	college	opera
protected	telephone	consider	opinion
remit	tract	continued	positive
reserve	transit	convinced	published
success	36%	deserved	satisfactory
supplied	advantage	foundation	signed
you'd	adventure	instruct	style
38%	advising	instructed	succeeded
advanced	avoid	mere	themselves
alfalfa	calves	moral	valuable
bargain	cellar	neglected	31%
billed	considered	neighbor	accomplish
cement	couldn't	prevail	advertising
cigar	courage	procured	attain
confident	data	reduction	believing
convince	easily	reliable	calendar
curtain	entitle	section	combination
describe	formerly	separate	constantly
didn't	furnished	source	corrected
employed	increased	33%	dangerous
firm	international	bracelet	disgusted
forgotten	Latin	channel	followed
limit	limited	composition	graduation
lovingly	management	congratulate	hauled
manual	owner	customer	heir
method	prepared	democrat	liberal
really	receive	education	million
resulting	select	enroll	misunderstanding
simply	supposed	entire	neither
slippery	transfer	avored	ninety
	treasurer	happiness	operation
STEP 15—34%	35%	importance	organized
37%	attach	improvement	ourselves
ache	attached	library	personal
acre	crowded	period	raiser
argument	decided	realizing	regardless
attention	doubt	search	regular
choice	expecting	secured	remedy
current	factories	securing	selected
cute	fierce	slight	stomach
decide	guest	tatting	straight
deserve	hadn't	total	vacant
discontinued	madam	vision	
doesn't	position	32%	STEP 16—27%
domestic	prayer	adjusted	30%
exact	private	advertise	according
exactly	represented	applied	advancement
feature	resident	arranged	advised

appointed
appointment
attended
automatic
banquet
cartoon
connected
connecting
copies
corporation
credited
directly
excess
exercise
favorite
federal
funeral
inspector
inst.
moderate
nickel
particular
patron
proceed
publication
reference
reservation
route
suggested
theater
wasn't

29%

accordingly
affair
altogether
ambition
amendment
benefit
cashier
collect
concern
connect
course
etc.
examined
expression
ghost
humor
instance
internal
justified
literary
medicine
planning
refer
system
wholesale

28%
appeared
approved
beginning
Christian
commence
correction
correctly
direction
earliest
exception
hesitate
interesting
nervous
prior
purpose
representation
requirement
safety
strength
submitted
transportation

27%

auntie
based
companies
conference
contrary
democratic
develop
difference
extensive
fortune
gratitude
issue
legal
manufacturing
nephew
president
presume
registration
resource
Sabbath
satisfy
spirit
superintendent
support
telegram

26%

attraction
barely
cedar
concrete
concerning
concert
confirming

deposit
engineering
freight
good-bye
graduating
issued
notify
obligation
personality
prefer
quality
reasonable
relative
remembered
rural
sense
stationary
stopped
supplies

25%

advertisement
author
canned
confer
disposal
doubtless
effect
evidently
influence
inquiry
junior
liable
meant
musical
organize
permanent
purchase
reception
selection
semester
serious
society
strictly
volume

24%

assist
ballot
employer
examine
existing
generators
heretofore
imagine
impossible
justify
national
process

resigned
salesman
secretary
series
suggest
tanning
X-ray

STEP 17—21%

23%

absence
absolute
arriving
article
client
collecting
connection
deliveries
difficulty
engineer
enrollment
experience
frequently
furniture
graduate
grateful
label
occupied
possible
possibly
practicing
purchased
quotation
receiving
registered
salary
subscription
succeed

22%

accepted
athletics
business
choir
collation
compelled
consequently
consideration
conspiring
cups
demonstrated
disturb
furnish
envelop
equipment
explanation
labor

genuine
hustling
inquires
installment
insurance
investigate
involved
satisfaction
timothy

21%

actual
admission
assured
celebrate
construction
decrease
discourage
establish
established
hastily
investigation
mental
merchandise
patient
policy
practice
qualities
reliability
renewal
sanitary
signature
variety

20%

allowed
assistant
basis
brief
carnival
commerce
confidence
cushion
destination
elsewhere
examiner
identify
instruction
introduction
judgment
legislation
magazine
natural
politics
preparation
receipt
regularly
superior

supervision
surplus
type

19%

appearance
application
arrangement
attempt
choosing
circulation
citizen
considerably
correspond
crochet
difficult
distribution
equally
excitement
expensive
federation
numerous
preliminary
quantity
relieved
straightened
subscriber
sympathy
urge

STEP 18—16%

18%

ability
accident
agriculture
algebra
announce
assembly
assessment
attendance
authorized
certainly
consequence
conservatory
considerable
convenient
council
decision
development
examination
girlie
inferior
institution
introduced
knowledge
meter

planned
probably
relieve
representative
responsible
universal

17%

administrator
conclusion
congratulation
description
disappoint
estimated
excellent
government
inconvenience
indicate
inducement
librarian
notified
operating
presence
proposition
prosperous
readily
received
regretting
terrible
weren't

16%

alumni
arrival
assortment
assure
attractive
available
capacity
circular
crocheting
electrical
entitled
epidemic
evidence
exclusively
fashionable
grammar
individual
invitation
merely
rec'd
remembrance
remittance
successful
supervisor
territory
welfare

15%

agency
allotment
announcement
assignment
assistance
assuring
attorney
electricity
encourage
exceptional
extreme
familiar
generally
geometry
grippe
instructor
instrument
literature
notary
ordinary
possess
practical
previous
profitable
referring
special
surgery
usual

14%

absolutely
additional
auditor
blizzard
completely
consultation
expense
foreign
fundamental
gradually
honorable
mortgage
occasion
quantities
thesis
sincere

STEP 19—12%

13%

applicant
association
assume
canvass
communication
constitution
co-operative

cordial
demonstration
disagreeable
duplicate
employee
finally
illustrated
impression
necessity
organization
premium
profession
senior
social

12%

acquainted
agricultural
anxious
bulletin
compliment
co-operation
disease
error
executed
exhibit
glorious
majority
merit
naturally
orchestra
similar
university
unusually

11%

acquire
administration
anniversary
confirm
contemplating
correspondent
customary
disappointed
disappointment
enormous
exhausted
favorably
illustrating
immense
material
opportunity
particularly

physical
privilege
recommend
specification
thorough
usually

10%

assurance
bonus
circumstances
commercial
enthusiastic
executive
fraternally
guaranteed
journal
possession
practically
recommendation
response
satisfactorily

STEP 20—8%

9%

accompanying
accomplished
activity
advisable
affectionately
annual
approval
assigned
associated
certificate
circuit
equipped
extension
illustration
immediate
leisure
mechanical
principle
substitute

8%

acceptance
accordance
annually
authority
campaign
character
civics

committee
continuous
definite
definitely
fortunate
Hallowe'en
immediately
interfere
occasionally
original
principal
prosperity
tuberculosis
unusual

7%

actually
affidavit
analysis
appreciated
appreciation
commissioner
conveniently
cordially
exhibition
extremely
institute
materially
necessary
official
originally
personally
phosphorus
pneumonia
possibility
referred
soliciting
unnecessary
vicinity
zephyr

STEP 21—6%

6%

accommodate
acknowledge
ambitions
appreciate
candidacy
confirmation
correspondence
enthusiasm
especially

guarantee
maturity
responsibility

5%

accredited
attitude
convenience
courteous
efficient
essential
exceptionally
physician
professional
science
specially
sufficient
various

STEP 22—4%

4%

acquaintance
appreciating
associate
chauteau
commission
community
financial
ingredients
license
rheumatism
solicit
thoroughly

antebellum
bureau
cylinder
dentist
politician
schedule
sincerely

STEP 23—3%

3%

STEP 24—2%

2%

STEP 25—1%

1%

STEP 26—0%

0%

SECTION XII

THE IOWA SPELLING SCALE

GRADE V

GRADE V

STEP 1—100%

all
and
at
baby
book
but
come
day
good
got
hand
have
he
her
his
how
is
it
let
lot
may
old
read
run
say
see
this
three
up
we
what
will
wish
with
wood
year
your

corn
could
dear
did
dinner
door
dress
each
every
fast
fish
five
game
go
going
happy
hard
home
hunt
in
July
kind
lake
land
last
letter
like
little
long
look
love
make
man
May
Monday
mother
must
my
not
Nov.
on
out
over
place
play
rich
said
seven
she
ship
snow
state
tell

thank
that
thing
think
top
under
was
way
winter
work

park
saw
saying
school
show
silk
so
south
spend
spring
store
taken
ten
the
them
then
train
walking
wall
why
would
yet
yourself

STEP 3—98%

add
am
away
bank
bell
bill
box
bring
cake
calling
car
care
cash
clear
dark
do
dog
east
feet
food
foot
from
gate
gold
had
hay
head
help
however
ice
if
inside
into
just
day
men
much
nine
oil
one

STEP 4—96%

97%

about
after
ago
along
apple
asking
back
bed
bee
blow
brother
butter
city
class
clean
count
cow
cut
dance
date
down
earth
end
fall
farm
fat

STEP 2—99%

age
are
ball
barn
be
big
boy
by
call
came
can
card

fell
fire
free
gave
get
give
grade
has
hat
hot
ill
ink
June
kindly
left
light
live
longer
looking
made
milk
more
most
Mr.
night
north
nut
off
once
outside
page
papa
pay
pig
put
red
rent
river
rush
sand
seen
send
sheep
should
sick
six
some
stand
stay
such
sun
sweet
take
tent
they
thinking

time
to-day
to-night
two
us
very
walk
wash
well
whatever
where
white
who
within
world
you

96%
adding
an
as
bad
became
best
better
bird
block
blue
bright
cap
case
cat
cent
chair
children
coat
cold
cook
cover
covering
dad
delay
doing
dust
early
ever
face
farming
faster
fellow
fill
for
found
fun
glad
goldfish
grand
green

half
hall
heat
hen
hill
hold
inch
joy
king
large
late
lost
mail
market
mean
mill
move
note
number
our
pine
point
poor
print
rain
reader
reading
real
road
same
sell
short
side
sister
spell
spelling
standing
stone
summer
Sunday
table
thank
there
till
toy
tree
used
want
war
washing
water
went
west
wheat
when
wide
window

working
yard

STEP 5-94%

95%

added
afternoon
art
asked
backing
banking
bay
bean
below
beside
black
blank
boat
brick
cannot
change
coal
cream
cup
dead
Dec.
eat
Feb.
felt
filling
finding
Friday
frost
girl
glass
grass
ground
grove
handy
him
hog
hour
house
hunting
Jan.
kid
landing
law
lived
low
mail
March
meat
morning
mud
mystery

name	cross	slow	list
near	darling	son	liver
net	deep	song	lives
never	died	soon	load
nice	don't	sport	loved
of	drive	stamp	luck
oldest	even	stated	mark
paper	eye	stick	master
part	far	stop	mate
pen	fight	swell	money
picture	first	teaching	mouth
playing	fishing	teeth	new
price	fit	ticket	noon
ready	forget	trip	nothing
rest	glove	upon	oats
rice	gone	wake	oh
ride	great	warm	painted
rock	keep	wife	pass
Sat.	kiss	willing	post
sent	lady	worked	postage
shoe	larger	yellow	press
singing	leader	yes	quick
sink	leave		rule
sleep	leg	STEP 6—92%	sack
sound	life	93%	saved
start	longest		seed
storm	looked	act	seeing
stove	ma	alone	sending
teacher	meal	any	set
telling	mine	anyone	seventy
thin	no	aside	silver
took	now	bake	sir
unable	Oct.	become	sit
were	older	belt	small
wind	open	board	soft
wise	or	body	soil
without	overcoat	boxes	spending
worker	party	camp	spent
	pick	can't	stage
94%	pie	child	started
able	pin	colder	staying
above	proper	cool	still
ahead	rail	crop	stood
air	reach	done	sugar
also	remove	eight	supper
arm	report	father	teach
around	room	flat	test
ask	rose	fort	town
banker	round	four	walked
bat	rust	goat	week
bear	sad	hair	whenever
because	safe	handed	while
behind	sat	handle	yearly
belong	shall	hear	zone
contest	sin	himself	92%
cost	slip	inches	another
country		lesson	April

army	sold	paint	flower
ate	spot	pump	garden
basket	talking	queen	girl
birthday	these	rubber	glasses
cattle	told	snowed	growing
check	trust	soap	hang
cleaning	twenty	something	hander
clock	western	sorry	harvest
close		speak	here
December	91%	sum	hit
die	alive	sunshine	holding
drop	aunt	taking	income
easily	band	talk	itself
egg	beat	tenth	kindness
fence	been	than	kitten
fine	being	tip	know
forgot	branch	tire	lace
form	bringing	ton	listed
fur	buy	true	lump
grant	cane	trunk	marking
heating	charge	try	nation
helping	chart	Tuesday	nearly
job	church	unless	neck
jump	clay	wanted	note
kill	coffee	wanting	noted
kinder	danger	washed	November
lumber	deal	welcome	other
next	deed	wheel	ours
only	depend	win	outfit
other	dream	wire	person
pack	enough	wishing	pure
packing	feed	wonder	range
paying	fifty	write	rank
people	friend		rate
picking	given	STEP 7 = 88%	receiver
pillow	ha	90%	remain
pink	hardly	Aug.	remains
planted	heavy	blood	rested
plate	high	both	return
please	hole	brought	shame
plow	homesick	brush	shape
pocket	horse	bunch	sort
pound	January	burn	spoon
pride	keeping	called	station
printed	lane	catch	system
railroad	largest	chum	truly
recall	lunch	classes	truck
reenter	mailed	club	turned the
seat	matter	content	trains
self	meet	county	train
September	mostly	dearest	trained
shipment	moved	dresser	too
shop	music	farmer	wagon
sickness	nobody	fear	was
smart	order	file	with
snowing	oven		
	own		

wool
word
worth
yesterday

89%

acting
booklet
born
bottle
bought
brain
brand
cared
carry
center
chop
closed
coast
cooking
dated
discount
display
dollar
dozen
drug
drum
duty
everything
express
fact
fail
few
filled
gather
getting
happen
hate
hurry
invite
leaves
less
maid
mailing
maker
many
might
news
painter
partly
patch
peach
phone
plenty
pole
post card
printing

protest
pull
race
rained
render
roof
row
settle
shortly
shut
sixty
size
speaker
stranger
street
strongest
suit
sure
temple
thick
travel
trying
understand
watch
weak
woven
young

88%

agree
bet
blame
cheer
Christmas
closer
cord
counting
enter
evening
everyone
fair
finish
follow
football
force
forest
former
front
funny
garment
grain
gray
grown
holder
hoped
I'm
indeed

lift
lovely
membership
met
newspaper
nose
October
passing
per
plan
raw
right
ring
sale
saving
selling
Sept.
skate
snap
spoke
starting
step
stunt
team
thankful
thought
tie
township
track
turkey
uncle
understanding
united
vote
wrote

87%

across
again
agent
always
apart
asleep
awhile
Bible
boss
bother
build
calf
charming
chicken
cloth
coin
crib
dandy
family
feeling

finger
ford
forgive
frame
goose
grandma
grew
hearing
herself
inasmuch
learned
learning
leaving
Miss
miss
month
noise
orange
otherwise
pleased
posted
prevent
printer
quart
raised
removed
respect
roll
seventh
share
shot
sight
someone
somewhere
stock
tend
tile
title
trace
treat
trusting

STEP 8—84%

86%

almost
amount
answer
anything
begin
behalf
bid
bite
cleaner
coasting
cotton
death

deliver	court	clothing	85%
demand	damp	cloudy	active
doctor	dare	company	address
draft	dearly	dispose	ans.
eve	depending	does	badly
exchange	dressed	enjoy	beet
failed	drew	fancy	beg
figure	drill	feeding	bit
finished	edge	folder	broken
gown	greatest	forth	bugs
grandfather	grind	frankly	builder
hardware	heap	fresh	candle
held	honest	glee	changed
history	household	having	clever
improve	inform	heard	colt
knew	invited	higher	conduct
learn	island	hundred	copy
making	killed	I'll	drilling
match	kisses	improved	eighteen
moving	labor	inclosed	excuse
named	leather	iron	extent
need	locate	joke	field
pain	lower	least	formed
peace	nature	loaded	gladly
pending	overlooked	lone	hereafter
poorly	pa	lonesome	hotel
power	painting	loud	inclose
rack	pair	lung	lighting
raining	plum	meantime	located
reaching	porch	member	lucky
renew	present	merry	maple
renting	reported	mighty	meeting
rug	riding	monthly	middle
sample	rolling	nap	northern
scout	Saturday	nicely	offering
sock	seem	produce	packed
tested	sometime	proud	payment
thereof	third	provide	pearl
thread	thousand	raise	plain
too	Thursday	record	prize
twice	treated	repair	ranch
value	turn	request	respond
velvet	waited	rod	returned
wear	whole	shade	rough
won	wishes	sheet	scale
	withdraw	showed	second
absent		simple	single
anywhere	afraid	since	sixth
belonging	August	smaller	slipper
building	auto	somewhat	sooner
carpet	battle	stair	thou
cast	bench	strongly	to
cause	between	taxes	treatment
caused	branches	their	vocation
chance	brown	tried	visit
contain	bushel	weather	witch
cottage	chill	wished	won't

85%

84%

writing	twelve	setting	charged
youth	understood	spread	climate
zero	voter	square	comfort
	waiting	steel	comply
82%	weary	subject	cousin
action	wedding	talked	dealer
afterward	whereby	tread	dealing
already	women	valley	deeply
among	wonderful	voice	deserve
boiler	yoke	waist	dose
broad		which	expert
broke		worm	extend
cleaned	STEP 9—79%		feeder
cure		80%	fifth
decline	81%	afloat	foolish
delighted	advance	anyway	frozen
eighty	anyhow	artist	germ
elect	blew	breakfast	guess
everybody	button	bridge	homestead
flesh	buyer	cheap	informed
floor	caught	corner	judge
froze	central	cutting	listen
fruit	chain	delivered	main
gaining	clearly	directed	moment
globe	damage	English	obtained
granted	daughter	fixed	penny
herewith	degree	greater	postal
instead	enclosed	greatly	power
joyful	find	health	product
kindest	finest	hers	public
lamb	flour	hurt	reached
leaf	folk	junk	reason
liberty	fuel	likewise	recovered
lie	gallon	mass	remind
living	greeting	mend	season
mountain	haven't	needed	serve
Mrs.	helped	needle	speed
neat	hence	nevertheless	stamped
obtain	later	notice	student
ocean	laugh	o'clock	suitable
officer	mind	ordering	throw
pencil	mister	pools	trouble
pretty	nearer	post office	turned
program	nor	potatoes	union
prove	opening	raising	upper
proved	outlined	repeat	valued
provided	payable	sew	visited
question	phoned	shed	wait
requested	played	strike	whom
rip	prevented	studies	wrong
rushed	production	though	
scare	quickly	trade	78%
several	reduce	79%	answering
stuff	refuse	amounting	beef
throat	retail	before	chapter
through	seal	bottom	crazy
tiny	seemed	carried	daily

dancing	herein	movement	
dread	insist	perfect	74%
election	intend	permit	aere
factory	joined	plainly	actor
farther	lbs.	primary	anybody
fix	now	reaches	attend
fourth	nerve	scrap	backed
fully	nurse	sis	barrel
gas	odd	training	beauty
German	opened	truly	beyond
grit	ought	until	buying
handling	past	watching	captain
idea	placed		color
inspect	pleasure	75%	coy
isn't	proven	although	enclosing
jar	rabbit	animal	except
kitchen	require	appear	explained
knowing	tax	ashamed	further
language	weekly	Ave.	gee
latest	weigh	beaten	handled
latter	weight	begun	highest
liked	woman	birth	improving
message	Xmas.	changing	inviting
package		checking	ivory
perhaps		coach	known
reply	STEP 10—73%	creep	length
returning	76%	case	local
sash	abstract	factor	measure
score	answered	forty	million
skating	bigger	fourteen	misses
slide	built	friendly	needing
steady	bulk	gained	owner
that's	capital	gland	picnic
tired	cheaper	helpful	profit
visiting	checked	its	rapid
we'll	clerk	level	recite
worse	cough	linen	relation
	dairy	manage	relationship
77%	detail	notion	section
acted	dodge	object	section
blessed	eager	ordered	silence
busy	else	organ	start
cheerful	figured	owing	soldier
coming	freeze	parlor	soon
contract	furnish	providing	stopout
couple	grip	ribbon	taught
direct	headache	slept	throughout
eleventh	housekeeping	sorrow	to-morrow
enclose	intended	stating	tonel
excited	join	term	unpaid
explain	kept	together	
extra	lecture	touch	unreel
fashion	loving	useful	wait
favor	machine	view	waitress
gain	married	worst	waitress
habit	mistake	writer	waitress
handsome			waitress

covered	holiday	rainy	couldn't
deportment	hospital	remember	delivery
disposed	inclosing	says	director
dreadful	include	serving	district
during	intention	sleet	doubt
enjoyed	invoice	suffering	Dr.
expected	ladies	Tues.	example
famous	namely	winner	expressed
French	owe	workmanship	fitted
furnished	parties	70%	fortune
gasoline	per cent	admit	forwarding
hare	promised	advice	geography
healthy	putting	awaiting	grocery
including	quit	blooming	headquarter
investment	recess	bluff	important
letting	reduction	booth	improvement
lodge	regard	buggy	insert
lonely	reserve	butcher	I've
oblige	sewing	delightful	lowest
perfectly	shipping	desire	manner
piano	shoulder	earnest	minute
property	stayed	explaining	normal
prospect	supply	fullest	obliged
quarter	uniform	furnace	quite
regulation	wage	graze	recently
saddle	71%	happened	refreshment
saver	addresses	loss	refused
settlement	advise	model	sign
shock	alley	neglect	sitting
submit	barley	nineteen	surface
Thanksgiving	began	parent	topic
traveling	break	placing	waste
voting	carrier	presented	watched
72%	cities	problem	worry
apply	containing	progress	yourselves
baking	continue	quoted	63%
base	delayed	reduced	adjust
bog	desired	rye	advising
careful	dice	scarce	ample
cigar	dirty	seller	aware
correct	fitting	served	believe
crowd	foundation	server	chose
curtain	furnishing	spare	common
devoted	gentleman	sweater	condition
discovered	handkerchief	Wednesday	consist
dwelling	hoping	we've	contained
earning	human	wouldn't	credit
elected	husband	you'll	employed
enjoying	illness	STEP 11—66%	fairly
entering	increasing	69%	forenoon
feel	knot	according	forgotten
fever	likely	aid	friendship
fifteen	limb	balance	fund
film	loyal	calm	hurried
flavor	owned	cement	I'd
forward	pavement		inquire
	pupil		

jury
location
performed
prepaid
properly
requesting
result
settled
shown
stories
struck
success
wasn't

67%

adjustment
boarding
circus
companion
dangerous
fault
fern
figuring
forwarded
included
information
ironing
method
promise
recent
regret
remained
simply
standard
wondering

66%

account
addressed
attending
breaking
burden
colored
debate
dependent
expecting
February
ideal
industry
maybe
modern
neighbor
noticed
passed
pertaining
private
protected
queer

rapidly
remembering
renewed
seldom
suppose
utmost
written

65%

ache
aim
attention
closely
convention
current
debating
due
education
entirely
entry
fare
hadn't
instruction
item
loan
neglected
pattern
preparing
prompt
promptly
running
search
select
text
tickled
tight
wearing
weighed

64%

allow
arrive
avenue
average
bowl
cherries
chief
collect
crippled
domestic
entitle
fee
hereby
interested
minister
offered
ourselves
prepare

produced
required
shipper
smooth
surprise
taste
therefore
toward
tract
using
worthy

63%

addition
against
ankle
complaint
constant
depot
didn't
direction
directly
entered
entertainment
exciting
following
general
gentlemen
gotten
group
hasn't
hello
honor
interest
period
prayer
replying
separate
struggle
tanning
violin

STEP 12—58%

62%

ability
advanced
avoid
blackberries
carefully
creamery
daddy
describe
dutie
entertain
entire
favorable

followed
guide
independent
lately
lining
management
moral
oversight
parcel
piece
proceed
proof
regular
remit
rifle
strict
surprised
total
trial
would

61%

advised
automobile
biggest
calves
choice
concluded
conversation
cute
decide
deposit
deserved
difference
final
musical
ninth
preacher
promotion
quality
quiet
regarding
whose

60%

advantage
advantage
argument
Bos
comfortable
complete
constituted
conquies
costumed
dair
estimated
footwear
fortune

ghost
gravy
inspector
instant
interesting
limit
lose
madam
mamma
national
published
reputation
shopping
sire
slightly
studied
vision

59%

alfalfa
channel
connected
contemplated
decided
destroyed
different
excess
feature
firm
funeral
laid
liberal
maintain
mention
natural
notify
operation
pardon
position
presume
procured
remembered
republican
ruin
satisfied
service
style
supplied
usual
whether

58%

appeal
appeared
aren't
braid
cabinet

capable
clothe
connecting
contrary
control
correctly
doubtless
either
enrolled
entertaining
favored
forced
garage
growth
honestly
loose
lovingly
machinery
manufacture
mentioned
misunderstanding
patent
pleasant
prepared
priced
register
represent
telephone
theatre
volume

57%

adjusted
author
billed
cellar
confer
division
drama
federal
filing
installed
manager
nephew
pastor
president
prevail
publication
secured
signed
transfer
transportation

56%

appointed
arrange

assure
cedar
choose
considering
convince
courage
crew
enroll
exact
expired
freight
furniture
graduating
guest
impossible
instructed
junior
manufacturing
operated
popular
purchase
refer
selection
slight
studying
supplies
vacant
worried

55%

accept
advancement
advertise
agreeable
attended
bass
collecting
commence
concert
constantly
effort
failure
female
inclined
instruct
liable
limited
missed
publisher
rendered
series
shipped
special
transit
treasurer
valuable

STEP 13—50%

54%

affair
awful
considered
corrected
correction
credited
doesn't
effect
generous
hesitate
internal
library
liquid
losing
neighborhood
neither
particular
possible
purpose
receive
refund
reliable
represented
requirement
resident
resulting
route
salesman
selected

53%

advertised
article
assist
automatic
carrying
concerning
consideration
course
humor
increase
jobber
largely
nickel
patient
Prof.
quotation
reference
serious
stomach
straight
support
supposed
worrying

52%

actual
cashier
catalogue
certain
crowded
discourage
disgusted
earliest
exactly
exam.
federation
formerly
graduation
increased
introduction
medicine
operating
opinion
personal
practice
reasonable
regardless
slippery
telegram

51%

absence
adopted
bracelet
calendar
college
confidence
connect
copies
desiring
discontinued
durable
employer
encourage
expression
imagine
realize
safety
spirit
strawberries
subscriber
weren't

50%

arrived
bargain
commerce
construction
deliveries
easily
extensive
graduate

hauled
justified
manual
niece
really
satisfaction
situation
stationary

49%

arrival
benefit
certainly
coarse
confident
convinced
enrollment
exception
favorite
instance
involved
literary
occupied
opera
organized
positive
remedy
satisfactory
splendid
succeed
system
vary

48%

applied
attempt
believing
circular
composition
connection
considerable
democrat
democratic
good-bye
haste
importance
numerous
patron
raiser
respectfully
responsible
strength
wholesale

47%

accomplish
announce
attached
attain

beginning
booster
fierce
hustling
investigation
Latin
moderate
personality
prefer
rural
strictly
tattling

46%

advertising
all right
attach
banquet
compelled
cushion
data
decrease
difficulty
envelope
establish
expensive
fashionable
happiness
nervous
ninety
process
relative
sanitary
society
source
succeeded
talent
terrible
type

STEP 14—42%

45%

absolute
altogether
amendment
approved
assured
cartoon
choosing
Christian
concern
conclusion
develop
equally
exercise
inducement

label
notified
quote
securing
themselves

44%

arriving
attraction
circulation
conference
customer
elsewhere
fortunate
frequently
honorable
meant
mere
obligation
policy
purchased
reception
reservation
suggest

43%

accident
brief
celebrate
citizen
combination
established
glorious
grammar
influence
issue
planned
practical
profitable
realizing
relieved
timely
universal

42%

amuse
available
cannot
collection
commutation
domination
difficult
electrical
ex-
ex-
government
gratitude
information

introduced
invitation
justify
knowledge
mental
previous
qualities
receiving
regularly
resigned
salary
stopped
university

41%

allowed
companies
explanation
grateful
indicate
instructor
insurance
international
profession
sincere

40%

anxious
assortment
awfully
blizzard
business
candidate
congratulation
contemplating
etc.
generally
identify
investigate
legal
possibly
readily
relieve
satisfy
sense
suggested
surplus
territory

39%

agriculture
ambition
appointment
assembly
attractive
choir
confirming
co-operating
corporation

disease
estimated
examined
impression
received
representation
social
submitted
superintendent

38%

barely
considerably
design
equipment
expense
experience
instrument
material
registered
renewal
Sabbath
semester
signature
subscription
superior
urge

STEP 15—34%

37%

application
authorized
coupon
description
development
disagreeable
disposal
engineer
entitled
error
majority
merchandise
proposition
successful

36%

advertisement
agency
arranged
confirm
disappoint
evidence
favorably
genuine
merely
organize

supervision
welfare

35%

appreciate
assurance
ballot
basis
distribution
engineering
heir
prosperous
quantity

34%

assistant
fabric
illustration
installment
merit
rec'd
reliability
variety

33%

activity
based
canvass
conservatory
co-operative
crochet
demonstrated
electricity
excitement
hastily
literature
meter
notary
presence
prior
registration
secretary
sympathy

32%

attendance
client
compliment
consequently
consultation
duplicate
employee
examination
inst.
issued
ordinary
planning
practicing
preliminary

resource
supervisor
absolutely
accordingly
assistance
auditor
commercial
council
existing
foreign
magazine
politics
various
vicinity

31%

STEP 16—27%

30%

administration
advisable
allotment
announcement
circumstances
crocheting
demonstration
exceptional
executed
illustrated
inquiry
journal
organization
principal
principle
remembrance
similar

29%

acquire
actually
assuring
athletics
enormous
fundamental
girlie
institute
naturally
possess
response
straightened
thesis
unusual

28%

acquainted
arrangement
assignment
completely
convenient

co-operation
examiner
excellent
extreme
finally
gradually
orchestra
particularly
permanent
preparation
quantities
senior
substitute
X-ray

27%

additional
administrator
admission
applicant
civics
commission
consequence
evidently
inquires
institution
premium
receipt
satisfactorily
usually

26%

algebra
appearance
assume
correspond
immense
judgment
official
physician
probably
thorough

25%

attitude
carnival
constitution
continuous
customary
disappointed
equipped
individual
occasionally
original
possibility

24%

alumni
approval
bulletin

confirmation
cordially
decision
disappointment
epidemic
exhibit
familiar
geometry
illustrating
interfere
sincerely

STEP 17—21%

23%

acquaintance
annual
annually
association
essential
exclusively
exhausted
grippe
maturity
necessary
opportunity
remittance
representative
unusually

22%

assigned
certificate
character
communication
enthusiastic
librarian
personally
privilege
regretting
science
surgery

21%

assessment
especially
extremely
inferior
mechanical
prosperity
responsibility

20%

acceptance
accordance
agricultural
associated
attorney
circuit

mortgage
occasion
physical
solicit
19%
accompanying
bonus
campaign
cordial
correspondent
executive
license
professional
specification

STEP 18—16%

18%

appreciating
bureau
convenience
exceptionally
extension
Hallowe'en
legislation
necessity
pneumonia

17%

accomplished
affidavit
appreciation
commissioner
community
inconvenience
originally
practically
recommend
referred
scientific
unnecessary

16%

candidacy
capacity
efficient
exhibition
financial
guaranteed
immediately
leisure
sufficient

anticipate
correspondence
fraternally
referring

analysis
appreciated
enthusiasm
immediate
possession
tuberculosis

STEP 19—12%

15%

accredited
apparatus
authority
thoroughly

14%

accumulate
associate
contents
peculiarities
phosphorus

11%

affectionately
ambitious
politician
specially

10%

anniversary
conveniently
recommendation

STEP 20—8%

9%

definite
ingredients
materially

7%

chautauqua
committee
definitely
zephyr

6%

anticipating
committee
rheumatism
soliciting

STEP 21—6%

5%

champion
treatment

4%

approximate
equation

3%

consequence
discontinuation

2%

SECTION XIII

THE IOWA SPELLING SCALE

GRADE VI

GRADE VI

STEP 1—100%		STEP 2—99%	
age	long	able	got
and	may	about	grass
as	me	add	green
away	more	all	hard
best	most	along	have
big	must	am	head
bill	my	an	help
book	name	apple	hold
boy	old	are	holding
but	on	at	ice
call	one	back	in
can	out	bad	inside
care	over	ball	into
clear	place	bank	July
cover	put	be	land
dear	read	bell	last
did	reader	better	lay
dog	real	bird	letter
door	rest	black	light
dress	run	blank	like
each	said	blow	little
end	same	box	lot
ever	say	butter	love
fast	see	check	made
father	she	child	make
feet	should	city	man
found	stand	clean	May
from	tell	coat	milk
get	thank	cold	Monday
give	that	come	move
go	the	cook	much
gold	them	corn	myself
good	they	could	never
grand	thing	day	not
happy	this	deal	nut
has	train	dinner	oil
he	tree	do	other
helping	under	doing	park
his	walk	down	pay
hog	walked	eat	peach
home	was	even	play
how	way	face	rain
if	we	farm	rich
is	went	farming	ride
it	what	faster	ring
just	when	fat	rock
lake	will	fire	rust
large	wish	fish	saying
larger	with	five	school
let	working	food	sell
live	year	girl	send
			seven
			ship

show
singing
small
snow
so
soil
some
spell
sport
state
stay
stone
table
take
taken
ten
test
thanking
think
three
till
time
top
understanding
up
us
very
wagon
washing
well
west
wheat
while
who
why
wide
window
without
wood
work
worked
would
yet
you
your

STEP 3—98%

after
ago
air
arm
around
art
ask
bake
barn

battle
because
bee
brand
bring
brother
bunch
by
cake
came
cannot
car
card
case
changed
class
clock
close
contest
country
covering
cow
cross
cut
dark
date
Dec.
December
delay
early
eight
every
eye
fail
fall
fill
foot
for
four
free
Friday
game
gave
going
grade
had
hand
hat
hay
heat
her
hill
him
homesick
hot
hour
house

however
hunt
ill
ink
Jan.
June
keep
kind
labor
lady
late
law
life
lived
longer
look
looking
lost
loved
mark
market
master
meal
mill
mine
money
mother
nation
near
next
night
nine
noon
note
Nov.
of
off
once
outside
pago
paper
part
pick
please
point
poor
post
print
reach
red
remove
rent
report
river
room
rush
sample

sand
saw
seed
seeing
shall
sheep
sick
sickness
silk
slow
soon
south
spelling
spend
spot
spring
standing
start
stop
store
stove
such
summer
sweet
swell
talking
thinking
to-day
ton
trip
Tuesday
two
unless
used
wall
want
wanting
week
white
wife
wild
wishing
within
worker
yard
yellow
yes
yourself
zero

STEP 4—99%

above
adding
afternoon
agree

alone	fur	renter	bottle
any	glad	rice	bought
asked	glass	Sat.	boxes
baby	gone	sat	braid
backing	growing	sent	burn
band	half	set	buy
banker	handy	shoe	called
banking	harder	sink	cap
basket	harvest	sister	cash
bat	held	six	cattle
bed	here	size	charge
being	high	sleep	charming
below	holder	snowed	children
beside	horse	soap	clay
birthday	hundred	sound	coast
blue	hunting	space	cool
body	joy	stick	cost
bother	killed	sum	cotton
branch	kindly	sun	dandy
bringing	kindness	talk	depend
building	landing	tank	dressed
bushel	leader	teaching	drive
calling	left	then	dust
cat	looked	thin	earning
cent	low	to-night	enter
chair	luck	took	farmer
change	ma	town	few
Christmas	mad	treat	figure
clothing	mail	try	first
coal	maker	unable	flower
coin	meat	walking	forget
count	morning	wash	fort
counting	Mr.	water	friend
crop	net	whatever	fruit
dance	north	where	garment
danger	number	wind	gate
deep	office	winter	gather
display	only	wire	gift
dollar	our	write	given
done	oven	yearly	glasses
drop	overcoat		grain
earth	pack	added	great
east	party	ahead	ground
edge	people	alive	hang
far	per	also	hate
feed	picture	another	himself
fell	pig	anyone	hit
fellow	pin	asking	inch
felt	pine	become	inches
fifty	plate	behind	income
fight	playing	belonging	jump
finding	pound	belt	kid
fishing	price	block	kinder
forgot	proper	blood	king
form	rail	board	learn
fun	reading	boat	leave
	ready	boss	leg

96%

lesson	slip	degree	rented
lift	smart	delighted	renting
listed	soft	died	rolling
longest	sold	draft	rose
lunch	song	dream	rule
mailed	spent	drew	seat
March	spoke	eighty	seem
marking	stamp	enough	seen
mouth	started	evening	self
mud	stated	Feb.	selling
music	station	fence	Sept.
newspaper	study	filling	shame
nice	sunshine	follow	shipment
no	Sunday	forgive	side
nothing	supper	former	sin
ocean	teacher	frost	snowing
Oct.	telling	glove	son
October	tent	goat	sort
older	than	goose	spending
oldest	third	grove	step
or	track	handle	stood
order	trained	hear	stamp
outfit	trunk	heating	sugar
paint	war	hereafter	taking
papa	were	inspect	teach
paying	whenever	job	teeth
payment	willing	kill	teeth
person	wise	kiss	tested
phone	wool	learned	thereafter
pink	word	leather	these
pleased	worth	liver	thick
printed		maple	thousand
provide		mate	ticket
pure	STEP 5—94%	mean	tire
quart	95%	meet	told
raised	act	meeting	trace
rate	bay	mend	true
reached	bet	moved	trust
remain	blame	new	trusting
remark	booklet	now	twice
request	born	obtain	understood
return	brick	oh	value
road	bridge	open	wake
roof	brush	otherwise	walk
row	calf	own	win
sack	camp	painted	world
sad	carpet	passing	writing
saved	chicken	pen	year
sending	cities	pie	yearning
settle	club	plain	afternoon
sheet	company	pole	always
shop	cord	press	amount
short	cup	pump	any
shut	dad	quick	any
simple	darling	range	any
sir	dead	risk	any
sixty	dearly	recover	any

been	offering	awhile	many
between	pain	bear	matter
bright	partly	began	member
brought	pass	bench	might
build	payable	branches	mighty
catch	pending	broken	nature
center	pillow	chain	nerve
chart	post card	chop	nicely
cleaning	power	church	nose
cloth	pride	cleaned	overlooked
coffee	pull	closed	pa
contract	railroad	colder	packing
cooking	rained	content	painting
crib	recall	copy	pair
dare	removed	correct	plenty
dealing	reported	cottage	pocket
depending	round	court	postage
discount	rushed	cream	prevent
doctor	scout	cure	printer
egg	season	damage	protest
English	seventh	daughter	ranch
enjoy	seventy	dearest	reaching
feeding	silver	death	repair
file	skate	deed	respect
finish	something	don't	retain
finished	sometime	dresser	rod
fit	somewhat	drug	rubber
flat	sorry	drum	September
funny	speak	easy	serve
garden	stage	enclose	share
getting	steam	everybody	shortly
gladly	still	exchange	showed
goldfish	street	fact	sit
grant	strongest	farther	slipper
granted	subject	fine	smaller
greater	thankful	folder	somewhere
hall	those	folk	sooner
hardly	thread	fully	speaker
heap	trying	gain	starting
heavy	twenty	gallon	staying
hen	upon	ha	stranger
January	vacation	hair	tend
joyful	vote	handed	there
kitchen	weather	happen	Thursday
kitten	western	hearing	tip
know	wet	herewith	training
lame	whereby	history	twelve
least	wrote	indeed	union
list		island	united
load		jar	valued
locate	STEP 6—92%	leaves	weak
lower	93%	liberty	wedding
lump	agent	likewise	welcome
match	answer	loaded	withdraw
nearly	anything	located	yesterday
noise	asleep	lone	
oats	ate	lovely	

92%

address
already
appear
April
aside
August
author
bean
before
belong
bite
both
broke
busy
cane
can't
carry
cast
caused
charged
checking
chum
classes
contain
cooler
county
damp
dated
does
dozen
drill
duty
expert
express
family
fancy
filled
flesh
fresh
friendly
front
grandfather
grandma
gray
higher
honest
hurt
instead
invited
iron
itself
join
joined
keeping
kisses
lace

largest
learning
less
living
loyal
merry
moment
mostly
named
nearer
neck
need
nobody
officer
ordering
patch
planted
present
printing
production
proved
public
queen
reason
renew
returned
safe
shed
shot
sixth
square
strongly
studies
trade
uncle
use
visit
waited
waiting
wanted
wheel
which
wished
wonder
wrong
zero

91%

active
among
answered
anybody
beg
behalf
Bible
broad
chance
chapter

cleaner
closer
cloudy
cutting
delightful
demand
desire
elect
eve
everyone
everything
extend
extra
fear
feeling
fixed
forest
freeze
French
froze
frozen
gained
greeting
grown
having
hence
herself
hole
including
ivory
joke
judge
knowing
leaving
listen
lives
location
mailing
membership
mind
Miss
news
none
normal
package
plow
pools
postal
product
program
provided
race
raise
reduce
remind
render
reply

requested
requesting
require
respond
rug
sale
saving
scale
second
snap
stock
taught
tax
team
their
thought
tile
title
to
treated
understood
washed
wear
whole

STEP 7—88%

90%

acting
aim
almost
ashamed
Aug.
beef
bid
builder
changing
cheap
cheaper
coasting
conduct
contained
continuo
cotton
daily
deeply
die
direct
disposal
dread
dress
enjoyed
excuse
extent
factory
failed
fair

favor	turn	meantime	improve
flavor	turned	mistake	inclosed
floor	velvet	nap	increasing
formed	voter	notice	industry
frame	watching	orange	inform
fuel	weary	painter	informed
gaining	weekly	pavement	intend
grind	wishes	posted	kindest
grit	woven	presented	later
heard	youth	prize	latest
hoped		property	local
I'm	absent 89%	raw	message
inasmuch	action	reduction	movement
information	afraid	regret	moving
junk	amounting	relation	noticed
lamb	answering	riding	organ
lumber	anyhow	rip	owned
making	anyway	score	perhaps
met	anywhere	seemed	phoned
miss	apart	setting	placed
neat	attend	shape	plum
nor	begin	stair	properly
noted	bottom	steel	proud
November	bugs	suit	recovered
object	button	thirty	reduced
ours	cared	thus	repeat
packed	central	together	result
pearl	cheer	tried	retail
pencil	chill	valley	returning
picking	clearly	won	ribbon
plan	closing	won't	rye
played	comfort		says 88%
poorly	deliver	acre	silence
poreh	detail	acted	suffering
politics	devoted	against	talked
prove	during	artist	text
providing	factor	blew	throat
rabbit	feeder	boiler	treatment
reaches	foolish	careful	trouble
reserve	force	climate	uniform
right	German	colt	wait
sash	glee	dancing	warm
seal	helped	delivered	witch
secure	hurry	dodge	worm
several	idea	election	
sight	I'll	enclosed	across 87%
someone	improved	except	attending
sore	intended	fashion	begun
speed	invite	field	bigger
suppose	knew	fifth	birth
surface	ladies	find	bluff
temple	language	forth	cause
through	latter	greatest	concluded
tie	leaf	grew	cousin
township	lodge	hardware	discovered
toy	loud	hotel	duties
travel	lung	household	example

expressed	tiny	modern	enjoying
finest	useful	Mrs.	entering
finger	visiting	narrow	firm
fix	writer	odd	fitting
ford		owe	illness
future	STEP 8—84%	pastor	inspector
gas		peace	instruction
gasoline	86%	perfect	ironing
geography	adjust	permit	length
graze	admit	piano	linen
health	advice	pleasure	main
helpful	afterward	prevented	mister
highest	apply	promotion	mountain
holiday	await	quickly	parlor
include	awaiting	quoted	perfectly
inviting	barley	rack	placing
kept	beauty	saver	prepared
known	beet	shade	promised
laugh	built	skirt	prospect
lighting	capital	stating	running
liked	carrier	student	saddle
lonesome	checked	throughout	slide
lucky	coach	too	steady
maid	common	topic	though
married	condition	total	tired
middle	credit	turkey	traveling
month	dairy	visited	voice
monthly	department	wage	weight
northern	dice	waist	women
nurse	directed	wasn't	wonderful
offered	eager	whom	84%
opening	eleventh	workmanship	advanced
powder	else	worse	atleast
pretty	fifteen	85%	ans.
private	figured	account	baking
proven	film	adopted	barrel
raising	final	advising	beyond
rapid	flour	aware	breaking
rapidly	following	badly	bulk
record	football	balance	butcher
refuse	general	base	chairman
relationship	germ	bit	chose
reliable	globe	brown	circus
required	gown	carried	clock
Saturday	guess	coming	clever
scare	handled	comply	collect
settlement	honor	containing	color
since	housekeeping	conversation	dealer
single	ideal	cough	decline
sock	improving	covered	district
soldier	investment	debate	quail
spread	lecture	deserve	guarding
storm	lie	directly	frankly
strike	lonely	dirty	handling
stuff	lowest	disposed	language
submit	machine	drilling	healthy
suitable	manage	eighteen	hatch

husband	inclosing	question	prompt
inclose	knot	scarce	quantity
included	neighbor	server	reputation
instruct	notion	serving	ruin
letting	outlined	sew	secured
million	owner	sitting	select
model	parties	sorrow	sewing
needing	pertaining	standard	struck
nevertheless	proof	stories	supplied
ordered	pupil	throw	term
penny	quiet	tread	we'll
performed	quite	weighed	writing
personal	recess	worthy	80%
primary	refreshment	yoke	addition
protected	refund	you'll	aid
publisher	resulting		Ave.
regulation	roll	STEP 9—79%	average
renewed	served		booth
simply	shoulder	81%	chief
sis	sign	agreeable	convention
slept	skating	agreed	crazy
spare	success	avenue	desired
stamped	that's	blessed	direction
statement	unpaid	bowl	division
supply	until	break	either
sure	written	captain	enclosing
taxes	82%	caught	excited
thereof	adventure	collection	fare
upper	boarding	connect	female
view	buyer	considering	fern
winner	candle	coy	forwarded
worry	cement	curtain	greatly
83%	couple	delivery	grip
abstract	debating	dose	group
ache	depot	effort	growth
advantage	education	excess	hospital
although	explained	expected	inquire
ample	famous	expecting	loss
animal	forward	explain	minister
appeal	foundation	factories	ought
arrange	gotten	fault	picnic
automobile	haven't	feature	prepare
backed	headquarter	furnace	profit
beaten	homestead	future	resident
breakfast	insert	guide	settled
cheerful	limb	headache	shown
companion	limit	hurried	sleet
delayed	method	instructed	utmost
elected	minute	I've	vision
feel	moral	mass	woman
fourteen	needed	misses	yourselves
fourth	neglect	needle	79%
fund	past	o'clock	adjustment
furnishing	plainly	oversight	ankle
habit	presume	pattern	attention
important	promise	post office	bog
		problem	

burden	crowd	piece	towel
buying	destroyed	progress	voting
cellar	due	putting	watched
colored	forty	reasonable	75%
constant	further	regard	accept
correction	gland	regular	accomplish
crew	humor	remembering	addressed
different	instant	replying	appointment
dreadful	manufacture	republican	assist
earnest	mentioned	route	attractive
entertainment	musical	selection	biggest
favorable	namely	service	closely
favor	neighborhood	situation	connecting
fee	parent	subscriber	connection
fitted	patient	sweater	constantly
forenoon	preacher	tight	couldn't
fortune	promptly	touch	creamery
friendship	quit	truly	doubt
furnished	rainy	weigh	effect
happened	recently	worst	enroll
human	regarding	wouldn't	entertaining
intention	represent		entire
invoice	section	STEP 10—73%	exactly
manner	shipping	76%	figuring
mention	shock		gentleman
natural	special	applied	hasn't
oblige	waste	attached	honestly
obtained	Xmas.	attempt	hoping
opened		cabinet	interested
reception	77%	certain	international
recite	addresses	choose	its
refused	allow	consider	moderate
remember	arrive	construction	ourselves
rendered	assure	convince	per cent
rough	buggy	creep	position
scrap	carefully	domestic	produced
seldom	certainly	employed	publication
tanning	consist	entitle	represented
telephone	current	failure	rifle
Thanksgiving	dangerous	fairly	studied
toward	director	fullest	supplies
trial	entered	garage	surprise
volume	extended	gee	tickled
Wednesday	federal	grocery	transfer
	forced	interesting	wondering
78%	handkerchief	level	74%
according	have	likely	absolute
actor	hers	measure	automatic
adjusted	I'd	owing	avoid
blackberries	installed	popular	collar
blooming	isn't	prayer	commerce
cherries	lbs.	prepaid	complaint
cigar	loan	priced	courage
comfortable	loving	produce	deserved
complete	machinery	receive	drama
confined	obliged	slippery	entry
crippled	particular	smooth	fever

filing	72%	consideration	support
importance	advertise	debt	vacant
independent	arranged	decided	
internal	arrived	deposit	STEP 11—66%
jury	attraction	described	69%
laid	bargain	exam.	accordingly
largely	choice	favorite	approved
loose	circular	hello	attain
madam	college	increased	bracelet
manager	commence	indicate	calves
neglected	composition	interest	cedar
opera	concern	introduced	collecting
parcel	conclusion	issue	combination
procured	considered	pardon	connected
quarter	cute	period	convinced
quote	desiring	remembered	copies
refer	durable	remit	corrected
register	encourage	satisfied	doubtless
seller	enrolled	splendid	earliest
shopping	entertain	strict	enrollment
strength	entirely	struggle	February
supervision	exception	supposed	furniture
to-morrow	exciting	taste	graduating
tract	expired	wearing	grammar
Tues.	followed	70%	gratitude
usual	freight	appeared	guest
violin	gentlemen	assured	lately
we've	hesitate	awful	library
whose	improvement	carrying	lovingly
you'd	liberal	considerable	realize
73%	neither	contrary	relieve
appointed	preparing	control	satisfactory
Bro.	Prof.	course	search
calm	remained	credited	securing
circulation	rural	crowded	serious
correctly	selected	employer	system
dependent	shipper	explaining	themselves
difference	slight	explanation	weren't
easily	social	expression	whether
extensive	stayed	forgotten	68%
ghost	style	funeral	capable
gravy	surprised	instance	citizen
hadn't	telegram	introduction	concerning
increase	therefore	Latin	daddy
justified	71%	limited	discontinued
nineteen	ability	maybe	elsewhere
organized	absence	medicine	graduation
president	accident	nervous	invitation
proceed	actual	notify	item
queer	advise	occupied	liquid
signed	advised	passed	numerous
sire	aren't	positive	obligation
slightly	argument	prevail	possible
spirit	booster	reservation	published
treasurer	braid	satisfaction	really
using	channel	separate	
	confident	straight	

shipped	received	cashier	doesn't
superior	salesman	choosing	evidently
67%	theater	conference	identify
advancement	transportation	customer	jobber
advertised	valuable	discourage	material
attended	64%	envelope	various
believe	additional	fabric	58%
continued	arrival	knowledge	anxious
didn't	article	lose	assistant
exact	assembly	missed	candidate
examination	clothe	possibly	compelled
examined	decide	prefer	cushion
frequently	decrease	profession	difficult
generous	deliveries	regardless	equipment
hustling	evidence	salary	excellent
impossible	genuine	sincere	exceptional
influence	happiness	suggested	investigation
manufacturing	hereby	transit	majority
ninth	honorable	61%	practice
operated	inclined	advertising	proposition
profitable	investigate	alfalfa	relative
recent	management	allowed	strictly
reference	misunderstanding	announce	successful
satisfy	patron	believing	welfare
66%	purchased	congratulate	57%
applicant	purpose	corporation	assortment
available	raiser	examiner	democratic
celebrate	realizing	expensive	electrical
companies	signature	fierce	entitled
confirm	studying	liable	equally
contemplated	worried	mamma	impression
Dr.	63%	mental	inducement
federation	affair	operation	instructor
maintain	arriving	process	instrument
national	attach	receiving	lining
opinion	banquet	reliability	literary
policy	brief	60%	manual
quotation	confer	activity	mere
remedy	design	application	meter
requirement	destination	cartoon	presence
resigned	disgusted	develop	previous
society	exercise	engineer	qualities
vary	graduate	establish	representation
wholesale	inquiry	expense	senior
65%	junior	glorious	series
agriculture	purchase	haste	timothy
alley	registered	legal	worrying
canned	respectfully	nephew	56%
concert	source	operating	character
fashionable	strawberries	safety	confidence
formerly	submitted	sanitary	development
heir		stomach	etc.
insurance	STEP 12—58%	tatting	examine
involved	62%	terrible	foreign
niece	altogether	59%	government
patent	billed	Christian	hauled
pleasant		democrat	

imagine
organize
personality
renewal
stopped
succeed

55%

acceptance
ambition
amendment
bass
business
catalogue
choir
confirming
constitution
difficulty
disease
error
extreme
generally
issued
losing
magazine
orchestra
politics
prosperous
regularly
territory
type
variety

STEP 13—50%

54%

assigned
authorized
beginning
benefit
crochet
customary
favorably
merchandise
ninety
occasion
original
possession
similar
succeeded

53%

awfully
completely
considerably
decision
demonstrated
description
disposal

established
exclusively
gradually
notified
particularly
planning
principal
readily
suggest
supervisor
university

52%

advertisement
assistance
blizzard
calendar
commercial
data
estimated
responsible
sense
stationary
talent
universal

51%

appearance
crocheting
ere
fortunate
inferior
label
meant
nickel
practicing
probably

50%

admission
agency
appreciate
assurance
barely
carnival
coarse
excitement
registration
sympathy

49%

announcement
attendance
attitude
contemplating
duplicate
engineering
heretofore
institution
urge

48%

accomplished
acknowledge
attorney
consultation
co-operation
disappoint
distribution
electricity
existing
experience
illustrated
preliminary
premium
relieved
Sabbath
straightened
usually

47%

congratulation
consequently
enormous
installment
librarian
naturally
ordinary
secretary
superintendent

46%

assignment
assuring
based
council
disagreeable
employee
exhibit
girlie
good-bye
grateful
hastily
illustrating
preparation
resource
semester

STEP 14—42%

45%

administration
appreciation
athletics
cordial
planned
practical

44%

appreciated
civics

co-operative
coupon
finally
literature
merit

43%

administrator
approval
auditor
certificate
co-operating
correspond
familiar
journal
legislation
merely
organization
quantity
response
surgery
surplus

42%

accordance
arrangement
circumstances
conservatory
correspondent
individual
justify
principle

41%

agricultural
assume
auntie
demonstration
extension
illustration
immense
inquires
necessary
remembrance
subscription
substitute
unusual

40%

commission
communication
mechanical
practically
prior
receipt
remittance

39%

actually
continuous
epidemic

possess
professional
science
specification
vicinity

38%

advisable
all right
authority
ballot
basis
geometry
interfere
rec'd
scientific

STEP 15—34%

37%

absolutely
annually
associated
exhausted
official
regretting

36%

acquainted
consequence
inst.
judgment
permanent
specially
thesis

35%

ambitious
annual
bureau
client
convenient
cordially
disappointed
immediate
institute
personally
physician
possibility
quantities
representative

thorough
X-ray

34%

compliment
exceptionally
executed
executive
license
notary
sufficient

33%

allotment
associate
materially
occasionally
opportunity

32%

acquaintance
algebra
courteous
financial
sincerely

31%

accredited
acquire
alumni
association
disappointment
enthusiastic
extremely
leisure
prosperity

STEP 16—27%

30%

circuit
soliciting
affectionately
anticipating
capacity
commissioner
unusually

28%

bonus
community

immediately
recommend
referred
responsibility
satisfactorily

27%

bulletin
canvass
conveniently
fraternally
referring

26%

candidacy
committee
equipped
inconvenience
maturity
necessity
physical
tuberculosis

25%

campaign
correspondence
especially
fundamental
privilege
solicit

24%

anticipate
assessment
confirmation
enthusiasm
grippe

STEP 17—21%

23%

accompanying
convenience
essential
exhibition
Hallowe'en
originally

22%

definite
mortgage
politician

21%
accommodate
appreciating

20%

affidavit
analysis
chautauqua
unnecessary
19%
recommendation

STEP 18—16%

18%

apparatus
pneumonia

17%

anniversary
appendicitis
guarantee
lieutenant
thoroughly

16%

efficient
zephyr

STEP 19—12%

13%

definitely
phosphorus

11%

characteristic
10%
ingredients
rheumatism

STEP 20—8%

9%

efficiency
guaranteed
peculiarities
schedule

SECTION XIV

THE IOWA SPELLING SCALE

GRADE VII

GRADE VII

STEP 1—100%			
able	fall	long	stick
about	farm	looking	stone
adding	fast	lot	such
afternoon	faster	make	take
again	fell	man	taken
age	fellow	many	teaching
air	fish	master	tell
all	five	me	test
alone	forgive	milk	that
an	from	more	the
are	gate	most	then
arm	get	mother	think
art	girl	must	thinking
asking	give	my	this
at	glove	name	time
be	go	neck	top
because	gold	net	toy
bell	good	Nov.	train
best	got	nut	tree
better	grade	old	unable
bill	grain	on	unless
black	had	one	up
book	half	out	us
box	hand	paper	very
boy	happy	park	wall
brain	have	pay	was
bring	help	people	way
but	helping	pick	we
call	her	pig	well
called	him	place	west
came	his	pleased	what
can	home	point	when
car	hot	postage	while
card	how	put	who
case	ice	reading	why
charge	if	rest	wife
class	inside	row	will
coat	into	rule	window
come	is	run	winter
corn	it	school	with
could	June	see	without
country	just	sell	word
cut	kind	send	work
day	land	she	working
deep	large	silk	year
did	last	sister	yellow
do	late	six	your
dog	left	snow	
early	lesson	some	
eat	let	space	
every	letter	stage	
eye	like	start	
fail	little	started	
	live	state	

STEP 2—99%

above
active
add
added

after	display	light	railroad
ago	doing	longer	rain
ahead	down	longest	rate
along	dress	look	reach
also	drop	love	read
am	each	loved	real
answer	earth	mad	red
any	east	made	report
ask	edge	mail	ride
away	eight	mailed	ring
baby	eighty	maker	river
back	face	market	rock
backing	farming	may	rush
bad	fat	meal	rust
band	fight	mean	sad
bank	filled	mill	said
banker	finding	Monday	Sat.
bean	fine	money	sat
bed	flat	mostly	saw
been	food	much	say
behind	for	mud	saying
belonging	found	music	seat
below	free	myself	self
big	game	night	shall
bird	getting	nine	sheep
birthday	given	north	ship
blank	glad	not	shoe
blue	going	note	short
bought	gone	notice	should
bright	grant	number	showed
bringing	green	oats	sick
brother	handed	of	sign
bunch	hang	oil	sixty
butter	has	older	slow
by	he	oldest	snowed
calf	head	our	so
cannot	hill	outside	son
cap	holding	oven	song
cash	hour	over	sound
catch	house	overcoat	spell
cent	however	pack	spend
child	ill	page	sport
children	in	paying	spot
clean	ink	payment	spring
clear	Jan.	pen	stamp
close	joy	picking	stand
cold	July	pie	standing
cost	kindly	plate	stay
cream	kiss	play	still
cross	lace	playing	store
cup	lady	please	subject
dandy	lake	poor	summer
danger	landing	press	Sunday
dear	larger	print	sweet
December	law	proper	swell
dinner	leader	quick	table
discount	leave	rail	thank

thanking	April	delighted	income
them	as	died	inspect
they	Aug.	dispose	invited
thing	aunt	door	January
three	bake	drill	jump
till	ball	drug	keep
tire	bat	drum	keeping
told	battle	dust	kid
took	become	easy	kill
town	bee	end	kinder
trip	behalf	evening	kindness
trust	belt	ever	king
trusting	beside	example	labor
try	blood	exchange	ladies
twice	boat	express	lay
two	body	far	learned
under	booklet	fear	leather
use	boss	feed	life
vacation	bother	feet	lived
value	bottle	felt	liver
walk	boxes	fill	lives
want	branch	filling	living
washing	brush	finish	loaded
week	building	first	lost
went	burn	fishing	luck
were	cake	Friday	mark
whatever	calling	friend	marking
wheat	camp	fully	May
whenever	care	gift	meat
where	carpet	glass	meet
white	chair	glasses	mine
wide	chance	goat	Miss
willing	change	goose	mouth
win	check	grand	Mr.
wind	city	grandfather	nation
wise	classes	granted	near
wish	closed	great	nearly
wishing	cloth	hair	never
wood	club	harder	new
world	coal	hardly	news
would	coffee	hat	nobody
wrote	coin	hay	noon
yard	conduct	hearing	off
yes	contest	heat	once
yet	continue	heating	only
you	cook	heavy	or
zone	counting	here	other
	covering	herself	packing
	cow	high	paint
	cutting	hit	painted
act	dance	hog	part
agent	dark	holder	party
almost	darling	hundred	pass
amount	date	hunt	peach
and	deal	hunting	pine
another	Dec.	inch	placed
apple	delay	inches	planted

STEP 3—98%

pole	spelling	army	father
post	stood	auto	Feb.
pretty	stop	awhile	feel
printed	storm	banking	few
printing	stunt	barn	fifty
provide	sugar	basket	finished
race	sum	bay	fit
raised	sunshine	bear	flower
range	talk	before	folder
rank	talking	begin	foot
ready	tank	being	forget
reduction	telling	belong	four
remain	ten	bench	frost
remove	tested	bet	gain
removal	thin	between	garden
rent	thousand	block	garment
renting	ticket	born	gather
request	to-day	brick	gave
respect	ton	bushel	gleo
rich	travel	button	grass
rolling	treat	buy	ground
room	true	cared	growing
round	trunk	cattle	hall
safe	Tuesday	caused	handy
same	twenty	chain	hard
sample	united	chum	hate
sand	used	church	hear
saved	valued	clay	held
seed	visit	clearly	higher
seeing	voter	clock	himself
sending	walked	cloudy	hold
sent	walking	coast	homesick
set	wanting	colder	horse
seven	war	company	I'm
seventh	wash	contain	iron
seventy	washed	cotton	island
shade	watch	count	job
shipment	western	cover	judge
show	which	crop	kitten
shut	wild	dad	know
silver	wool	daughter	largest
sin	worked	dearest	learn
singing	write	deed	leg
single	yearly	demand	less
sink	yesterday	depend	lift
sit	yourself	direct	list
size		dodge	listed
slip		dollar	load
small	STEP 4—96%	don't	local
snowing	97%	dozen	locate
soap	abstract	dream	location
soft	advance	drilling	looked
sold	aim	drive	low
soon	alive	egg	lower
sooner	always	election	lunch
sort	anyone	family	machine
south	anywhere	farmer	maid

mailing	September	wire	funny
March	serve	within	gladly
matter	settle	worker	greater
membership	several	96%	grove
morning	share	anybody	grown
move	sheet	anything	handle
moved	sickness	around	happen
nature	side	asleep	hardware
nice	sleep	backed	heard
no	smart	became	hen
noted	soil	branches	hence
nothing	someone	brand	highest
November	something	brought	history
now	sometime	busy	honest
object	spending	carry	hurt
Oct.	spent	center	improve
office	standard	changed	improved
orange	stated	charged	industry
order	station	cheer	instead
outfit	staying	chicken	jar
painting	steam	Christmas	joined
pair	step	cleaner	learning
papa	stove	cleaning	liberty
per	stranger	cooking	lumber
picture	strongest	cord	making
pin	stuff	cottage	match
pink	suffering	crib	mate
plan	sun	cure	meeting
pleasure	teacher	damp	message
plenty	teeth	dare	mighty
poorly	tenth	dealing	million
pound	than	deeply	mind
prevent	thereafter	degree	named
price	thick	desire	nerve
protest	those	die	next
reached	thought	directed	nicely
reaches	thread	doctor	none
reader	thus	done	nor
recall	to-night	dressed	normal
recover	total	ease	nose
remark	township	English	obtain
renew	trace	enter	October
reported	twelve	even	open
require	uncle	extra	ordering
required	understanding	fact	overlooked
respond	understood	farther	packed
result	union	fence	partly
retain	velvet	figure	patch
return	vote	find	payable
rice	wagon	fire	pencil
road	waiting	follow	person
rose	wanted	forgot	phone
rye	watching	former	potatoes
sack	water	fort	present
secure	welcome	fruit	primary
seem	wet	fun	produce
selling	wheel		product

profit	trying	depending	needed
provided	understand	deportment	noise
pump	upon	does	ocean
pure	voice	draft	offering
quart	waited	dread	oh
queen	whereby	earning	otherwise
question	wished	enjoying	own
raise	wishes	enough	package
record	won	except	pain
reduce	worth	excuse	passing
regulation	young	extend	pillow
relationship	zero	extent	pocket
render		factory	postal
rented	STEP 5—94%	failed	post card
renter	95%	famous	power
requested		favor	presume
returned	acting	feeling	prize
roof	action	file	program
rubber	address	fix	progress
rug	afraid	floor	public
scale	agree	form	pull
scarc	anyhow	formed	raw
second	apart	frame	reaching
seemed	arrived	fresh	reason
seen	August	friendly	regret
Sept.	badly	fur	reply
shame	base	furnish	rushed
shape	beat	gown	score
shot	beg	grandma	scout
sight	begun	grew	season
simple	bid	guess	shop
sir	birth	hoped	skate
smaller	blame	hotel	sorry
snap	blow	insist	speaker
somewhat	bottom	joke	square
somewhere	bridge	killed	suit
speak	broke	kitchen	team
special	brown	knowing	tent
spoke	build	known	thankful
spread	can't	language	thirty
stair	cause	laugh	through
starting	central	length	Thursday
steady	chapter	letting	tie
stock	charming	likewise	trade
street	chop	located	treatment
study	cities	lone	turned
supper	clothing	lonesome	wake
sure	colt	loud	warm
taking	content	lovely	weary
talked	contract	lowest	weather
temple	cooler	lump	wedding
there	court	maple	whole
these	damage	mind	witch
third	dated	might	withdraw
tile	debate	month	worm
tip	debating	monthly	woven
treated	decline		wrong

94%	knew	advantage	moment
among	lame	already	movement
answered	leaving	ample	narrow
attend	lighting	animal	natural
beef	listen	ans.	nearer
began	lodge	answering	neat
Bible	loving	aside	newspaper
bite	lucky	asked	odd
board	ma	ate	officer
boiler	married	bugs	pavement
broken	meantime	cane	plum
builder	member	cheap	printer
bulk	mistake	checked	promotion
cat	mister	collect	quickly
chart	northern	copy	quoted
climate	notify	correct	rack
comfort	notion	cough	raining
cool	opened	daily	recess
county	ordered	dealer	refuse
dead	pearl	district	requesting
dearly	pending	division	retail
deliver	played	domestic	returning
devoted	powder	dreadful	rod
duty	presented	dresser	rough
eighteen	prevented	during	running
elect	production	duties	sale
elected	ranch	education	served
else	recovered	eleventh	serving
everything	refused	expressed	settlement
expert	relation	factor	sewing
explain	remind	fancy	shock
feature	repair	female	sorrow
fifteen	repeat	field	stamped
fifth	rip	film	stories
figured	shortly	folk	strongly
fixed	sixth	football	student
flavor	sock	force	tend
flour	studies	front	term
forest	supply	geography	their
froze	taxes	having	throughout
frozen	tried	herewith	tiny
gallon	trouble	homestead	to
general	turn	human	track
gray	uniform	hurry	training
greatest	valley	idea	turkey
ha	visited	include	unpaid
harvest	visiting	indeed	useful
heap	watched	informed	winner
hole	weak	invite	wonder
I'd	worry	justify	wonderful
illness	youth	kisses	worthy
including		leaves	92%
increase	STEP 6—92%	lecture	absent
instruct	93%	loyal	acre
itself	account	measure	afterward
join	actor	model	aid
joyful	addition	moderate	arrive

artist	kept	attending	refreshment
attraction	kindest	beaten	regular
barley	lamb	beyond	reliable
barrel	latest	boarding	reserve
beet	least	breakfast	says
bit	liberal	built	shipping
blessed	lonely	candle	silence
blew	lung	caught	simply
bluff	manage	circulation	since
both	merry	circus	skirt
broad	middle	color	speed
burden	modern	common	taste
carried	moving	concluded	taught
cast	need	condition	tax
changing	needle	containing	trained
cheaper	offered	conversation	until
checking	organ	creamery	upper
cigar	ours	dairy	wage
cleaned	painter	detail	written
clerk	parties	difference	
closer	peace	discovered	
coach	perfect	encourage	STEP 7—88%
coasting	permit	enjoyed	90%
companion	pools	entering	according
complete	private	expected	anyway
connecting	prompt	expression	appeal
corner	properly	feeder	ashamed
corrected	prospect	final	attention
covered	proved	followed	aware
credit	rained	foolish	booth
dancing	remember	forth	butcher
death	riding	greeting	buying
delivered	right	habit	chill
directly	sash	household	connect
enjoy	saving	ideal	connected
eve	seal	inform	connection
everybody	setting	intended	couple
everyone	shed	ivory	crazy
feeding	shoulder	junk	delayed
finest	steel	leaf	delightful
finger	suitable	main	dirty
flesh	surface	miss	eager
foundation	though	nevertheless	effort
frankly	throat	owe	enclosed
freeze	title	pastor	entertainment
French	topic	posted	expecting
furnace	wait	pride	fairly
gained	wear	problem	fortune
goldfish	worse	promise	friendship
greatly	writer	protected	fuel
headache		proud	fund
health	91%	prove	furnished
honor	advising	proven	gaining
husband	against	pupil	gas
important	although	quotation	gentleman
information	amounting	rabbit	German
inviting	appear	reduced	gotten
	apply		

grind	author	thereof	mass
grit	automobile	too	national
grocery	beauty	tread	nurse
healthy	careful	trial	outlined
I'll	closely	wasn't	parlor
included	contained	won't	perhaps
investment	current	worst	plow
later	curtain	88%	possible
level	dangerous	acted	prepare
liked	debt	admit	president
liquid	direction	advanced	promised
met	entered	adventure	rainy
minute	failure	allow	register
neglect	fair	attended	renewed
neglected	fashion	Ave.	reputation
noticed	fee	avenue	scrap
obtained	fierce	bigger	seldom
owner	forgotten	break	server
penny	further	buggy	service
period	germ	cement	skating
phoned	globe	certain	slightly
piano	grammar	chairman	soldier
porch	graze	cherries	success
prepaid	guide	chief	therefore
providing	handling	comply	tired
putting	helped	composition	treasurer
raising	hereafter	consider	87%
rapid	hesitate	considered	agreeable
rapidly	honestly	correctly	agreed
refund	inclosed	cousin	ambition
remained	instruction	crew	appointed
resulting	isn't	didn't	approved
saddle	jury	difficult	assist
section	loss	dwelling	average
secured	method	entire	await
sis	mountain	exact	awaiting
slept	Mrs.	explained	baking
slipper	nap	fault	balance
smooth	neighbor	following	blackberries
social	opening	forty	blooming
statement	owned	forwarding	buyer
suppose	pa	fullest	cabinet
Thanksgiving	per cent	furnishing	calm
vision	picnic	future	carefully
weigh	plain	gasoline	cheerful
weight	popular	gland	collection
whom	property	happened	coming
women	recite	hare	commerce
wondering	regard	helpful	consideration
89%	ribbon	herein	considering
absolute	settled	holiday	construction
across	sore	housekeeping	convention
addresses	strike	increasing	correction
adjust	struggle	inspector	depot
advised	style	instructed	desired
arrange	sweater	lie	dice
assure	text	limb	director

due	clever	copies	colored
enclosing	closing	drama	comfortable
entirely	commence	excess	confined
entitle	courage	favorable	constantly
excited	described	federal	continued
expired	deserve	forced	cute
firm	different	forward	decided
fitted	dose	forwarded	discourage
fitting	earliest	fourteen	either
funeral	effect	growth	enrolled
gentlemen	fare	inclose	error
ghost	fourth	increased	extended
impossible	garage	indicate	avored
improving	gee	intend	federation
inquire	graduation	international	group
ironing	grip	knot	hospital
limit	guest	lately	importance
machinery	handled	limited	inasmuch
manufacture	handsome	linen	inclosing
needing	headquarter	minister	insert
numerous	humor	musical	I've
parent	hurried	namely	misunderstanding
pertaining	intention	obliged	past
placing	interest	o'clock	patent
position	issue	ought	piece
prayer	latter	ourselves	process
prepared	manner	produced	purpose
preparing	oversight	publication	queer
priced	parcel	quality	received
promptly	performed	represented	reception
proof	personal	rifle	relative
publisher	plainly	roll	representation
quiet	post office	route	republican
quite	proceed	select	resident
reasonable	published	seller	saver
Saturday	recently	signed	scarce
sew	represent	sleet	society
slide	selected	strawberries	system
spare	selection	suggest	tanning
strength	situation	themselves	telegram
struck	traveling	together	telephone
submit	whose	to-morrow	that's
throw	yourselves	towel	tract
touch	85%	volume	waste
transportation	ache	woman	Wednesday
truly	advertised	wouldn't	workmanship
view	appeared	84%	83%
waist	avoid	adjusted	absence
weekly	believe	advertise	capable
weighed	howl	advice	circular
yoke	breaking	advise	citizen
	capital	afloat	confident
	celebrate	ankle	creep
	chose	applied	crippled
	complaint	approval	doubtless
	consist	carrier	earnest
	constant	cashier	enclose

STEP 8—84%

86%

banquet
bog

enroll
exam.
exciting
factories
graduate
graduating
gratitude
instance
insurance
interesting
knowledge
laid
legal
manager
manufacturing
misses
owing
particular
preacher
receive
ruin
satisfied
search
shipper
shopping
shone
stating
supplied
supposed
tight
violin

82%

accept
accomplish
addressed
adopted
appointment
arranged
arriving
assured
assuring
attached
attempt
awful
biggest
cellar
collecting
concern
design
easily
employed
entertain
ford
generous
hoping
improvement
instant

internal
material
mention
neither
oblige
perfectly
purchase
quarter
recent
remembered
remit
replying
resigned
salary
securing
subscriber
surprise
worried
writing

STEP 9—79%

81%

assembly
bracelet
cartoon
companies
conference
delivery
develop
disposed
doubt
entertaining
fern
fever
freight
handkerchief
happiness
invitation
item
loan
loose
mentioned
nephew
operated
passed
pattern
prevail
realize
regardless
satisfactory
serious
sitting
slight
spirit
supplies
support

theater
tickled
toward
usual
vacant
we'll
Xmas.

80%

actual
adjustment
appreciate
article
attractive
booster
canned
captain
course
credited
desiring
exercise
extensive
fabric
figuring
forenoon
hello
inclined
interested
jobber
justified
library
likely
manual
notified
positive
quit
raiser
remembering
rendered
source
superior
universal
wearing
you'll

79%

agriculture
attach
attain
authorized
automatic
calves
choose
collar
concerning
convince
coy
decrease
dependent

deposit
destroyed
explaining
filing
hadn't
haven't
hereby
independent
institution
introduction
lovingly
management
moral
neighborhood
occupied
opinion
patient
regarding
requirement
rural
stayed
studied
voting

78%

ability
agency
argument
certainly
college
conclusion
considerable
convinced
couldn't
daddy
difficulty
entry
established
exception
favorite
finally
hasn't
heir
involved
lbs.
nineteen
opera
ordinary
procured
sanitary
stationary
straight
tattooing
Tues.
utmost
we've
whether

77%
accident
activity
affair
arrival
channel
concert
contemplated
crowd
deliveries
democratic
deserved
destination
durable
establish
evidence
exactly
examined
February
hustling
junior
liable
lining
maybe
nervous
policy
Prof.
purchased
quote
slippery
supervision
using
you'd

STEP 10—73%

76%
application
brief
Bro.
choice
compelled
customer
decide
formerly
hauled
investigate
investigation
literary
madam
maintain
mamma
mere
obligation
operating
operation
pleasant

proposition
refer
regularly
satisfaction
transfer
university
75%
allowed
anxious
assistant
blizzard
character
Christian
confer
confidence
crowded
discontinued
duplicate
expense
explanation
favorably
haste
influence
installed
introduced
journal
largely
organized
registered
relieve
series
signature
sire
strict
surprised
transit

74%
advertising
cedar
combination
development
Dr.
employer
engineer
envelope
extreme
frequently
gravy
honorable
illustrating
its
merchandise
pardon
possibly
remedy
shipped
submitted

suggested
territory
valuable
vary
wholesale
worrying
73%
choosing
commercial
coupon
cushion
description
enrollment
fashionable
government
hers
impression
instrument
issued
Latin
meant
ninth
orchestra
previous
profitable
prosperous
realizing
receiving
responsible
type
vicinity
72%

accordance
admission
alfalfa
announce
applicant
bargain
based
believing
disagreeable
disposal
elsewhere
examination
examine
extreme
fortunate
glorious
illustration
imagine
majority
medicine
mental
profession
qualities
really
reference

respectfully
salesman

71%
assurance
barely
billed
braid
business
confirming
control
democrat
genuine
identify
personality
principal
reliability
reservation
satisfy
senior
strictly
usually
weren't

70%
advancement
alley
altogether
carrying
contemplating
contrary
disgusted
electrical
entitled
evidently
furniture
institute
literature
practice
premium
sincere
splendid

STEP 11—66%

69%
accordingly
benefit
candidate
choir
circumstances
considerably
doesn't
equally
equipment
gradually
invoice
missed
politics

presence
 similar
 stomach
 terrible
 various
 68%
 accomplished
 available
 estimated
 label
 niece
 separate
 successful
 67%
 advisable
 appreciated
 constitution
 engineering
 etc.
 exceptional
 instructor
 patron
 prosperity
 substitute
 welfare
 66%
 assignment
 clothe
 demonstrated
 distribution
 employee
 magazine
 mechanical
 practical
 preparation
 subscription
 succeed
 sympathy
 variety
 65%
 amendment
 congratulation
 data
 exclusively
 experience
 illustrated
 lose
 prefer
 resource
 studying
 succeeded
 surplus
 unusual
 64%
 associated
 assortment

attitude
 bass
 capacity
 coarse
 corporation
 electricity
 executed
 foreign
 generally
 inquiry
 practicing
 registration
 renewal
 stopped
 63%
 administration
 assistance
 auditor
 awfully
 basis
 civics
 confirm
 congratulate
 examiner
 librarian
 readily
 timothy

STEP 12—58%

62%
 acknowledge
 appearance
 aren't
 interfere
 naturally
 nickel
 particularly
 possession
 semester
 urge
 61%
 actually
 additional
 calendar
 certificate
 commission
 co-operative
 customary
 exhausted
 heretofore
 inquiries
 losing
 ninety
 organize
 original

60%
 absolutely
 allotment
 assigned
 assume
 attorney
 beginning
 conservatory
 council
 decision
 demonstration
 excellent
 exhibit
 inferior
 organization
 planned
 response
 safely
 supervisor
 59%
 acquire
 appreciation
 co-operation
 crochet
 excitement
 existing
 inducement
 planning
 science
 secretary
 talent
 58%
 announcement
 consequently
 consultation
 good-bye
 individual
 maturity
 relieved
 sense
 57%
 ballot
 carnival
 cordial
 disappoint
 grateful
 legislation
 remittance
 specification
 56%
 administrator
 appreciating
 association
 co-operating
 crocheting
 disease

meter
 opportunity
 probably
 55%
 acceptance
 annual
 catalogue
 installment
 official
 practically

STEP 13—50%

54%
 athletics
 completely
 hastily
 necessity
 occasion
 personally
 preliminary
 quantities
 quantity
 Sabbath
 straightened
 53%
 advertisement
 agricultural
 bulletin
 community
 extension
 geometry
 merit
 principle
 52%
 acquainted
 alumni
 ambitious
 associate
 client
 compliment
 cordially
 correspond
 referred
 remembrance
 superintendent
 51%
 arrangement
 campaign
 disappointment
 enthusiastic
 financial
 girlie
 permanent
 50%
 bureau
 communication

regretting	44%	executive	29%
sincerely	assessment	originally	accompanying
solicit	extremely		guarantee
thorough	leisure		28%
49%	possess	STEP 15—34%	convenience
enormous	thoroughly	37%	peculiarities
license	43%	analysis	27%
materially	accredited	equipped	chautauqua
necessary	annually	fundamental	essential
physical	anticipate	mortgage	guaranteed
responsibility	circuit	36%	X-ray
48%	epidemic	fraternally	25%
all right	especially	unusually	recommendation
ere	judgment	35%	schedule
exceptionally	notary	efficient	24%
familiar	satisfactorily	physician	appendicitis
inconvenience	42%	34%	conveniently
merely	commissioner	affectionately	pneumonia
possibility	correspondent	33%	
professional	politician	committee	STEP 17—21%
receipt	41%	correspondence	23%
47%	algebra	occasionally	anniversary
auntie	bonus	referring	grippe
authority	continuous	tuberculosis	rheumatism
definite	enthusiasm	32%	21%
soliciting	prior	accommodate	Hallowe'en
46%	privilege	anticipating	20%
attendance	40%	apparatus	definitely
consequence	acquaintance	characteristic	ingredients
disappointed	exhibition	unnecessary	19%
immediately	immense	31%	phosphorus
	39%	candidacy	
STEP 14—42%	canvass	confirmation	
45%	convenient	inst.	STEP 18—16%
immediate	courteous		18%
rec'd	recommend	STEP 16—27%	affidavit
specially	representative	30%	16%
sufficient	scientific	efficiency	
surgery	thesis	lieutenant	zephyr

SECTION XV

THE IOWA SPELLING SCALE

GRADE VIII

GRADE VIII

STEP 1—100%	body	dinner	herself
able	book	done	high
about	bottle	dream	hill
above	bought	dust	him
add	box	each	himself
added	brick	earth	his
adding	bring	east	hog
advance	brother	easy	holding
afternoon	bunch	eat	horse
again	but	edge	hot
age	butter	eighty	house
ago	by	end	hunt
all	call	enjoy	hunting
alone	called	eye	ill
along	calling	face	important
am	came	fail	in
an	camp	fall	inches
and	can	farm	ink
another	car	farming	inside
anything	card	feet	into
apple	care	few	is
are	cash	filled	it
army	cause	fine	job
around	cent	fire	July
art	child	fishing	June
as	children	food	just
ask	city	foot	keeping
at	class	form	kid
away	clean	found	kind
baby	clear	free	kinder
back	close	from	lake
backing	coach	gained	land
bad	coal	get	large
ball	cold	girl	last
band	come	give	late
bank	contest	given	law
banking	corn	go	lay
bat	cost	going	leader
bay	country	gone	left
be	cow	good	leg
because	cross	got	less
been	cup	grade	let
behind	dad	grain	letter
being	danger	greater	life
bell	dare	had	like
belong	darling	half	list
below	date	happy	little
best	day	has	live
better	December	hat	lived
big	decline	have	liver
bill	deed	hay	lives
bird	degree	he	load
blank	did	head	long
board	died	help	look
		her	looking

love	partly	silk	thousand
low	payment	sit	three
mad	pen	six	time
mail	people	size	train
mailing	person	slow	treat
make	pie	small	tree
making	place	smart	trust
man	plate	snow	trusting
many	play	so	trying
market	pleased	soft	twenty
mate	poor	sold	under
may	power	somewhat	understand
me	prevented	sound	understanding
mean	put	spelling	up
membership	question	spend	use
message	rail	spent	value
milk	raised	spoke	waiting
mill	range	sport	walk
mine	read	stamp	wall
money	reader	start	wanted
more	ready	started	was
most	real	starting	wash
mother	reason	state	watch
move	red	stated	water
must	rent	station	way
my	report	stay	we
named	request	stick	well
nature	rest	still	were
nearly	return	stock	what
net	rich	stone	whatever
next	ride	stood	wheat
nice	rock	store	wheel
night	room	storm	when
nine	round	stranger	where
nobody	rug	study	while
noon	rule	subject	who
not	run	such	wife
note	rush	summer	will
nothing	said	sunshine	willing
object	sample	take	wind
office	Sat.	talk	wire
oil	saw	teach	wise
old	say	teaching	with
oldest	school	tell	without
on	see	telling	wood
once	seeing	ten	work
one	send	tent	worked
open	sending	test	worker
order	set	thank	working
out	setting	thanking	world
over	sheep	that	would
overcoat	ship	the	woven
own	shoe	them	wrote
pack	short	thing	year
page	should	think	yellow
painted	show	thinking	yes
paper	sick	this	yet

you	carry	evening	hate
yourself	case	ever	heard
zone	catch	every	heat
	cattle	exchange	heavy
STEP 2—99%	chain	expected	helping
abstract	chair	express	here
account	charge	fact	history
act	charged	factory	hit
action	chart	failed	hold
address	cheer	far	holder
after	church	farmer	home
agent	cities	fast	hotel
ahead	classes	faster	hour
air	cleaned	father	how
also	clothing	favor	however
amount	club	fear	hundred
answer	coat	feed	hurry
any	coffee	fell	ice
anybody	coin	fellow	if
anyhow	company	fight	inch
April	conduct	figure	instead
arm	contract	file	instruction
asking	cook	fill	invite
ate	correct	filling	invited
attend	could	finding	ivory
Aug.	count	finish	Jan.
aunt	court	fish	January
awhile	cover	fit	joy
bake	covering	five	judge
banker	cream	flesh	keep
barn	cut	for	kill
bottle	cutting	force	kindly
bee	dandy	forgive	king
before	dark	formed	kiss
between	dead	fort	know
black	deal	Friday	lace
block	dealing	friend	ladies
blood	dear	front	lady
blue	debate	gain	landing
boat	deep	gate	larger
booklet	delay	gave	learn
boss	depending	gift	learning
bother	discount	glad	leaving
boxes	display	glass	light
boy	district	glove	located
brain	dog	goat	longer
branches	doing	gold	longest
bright	down	goose	looked
bringing	dress	green	lost
brush	drew	grew	lot
build	drill	ground	loved
built	drop	hair	lovely
bushel	drug	handed	lower
cannot	drum	handy	luck
cap	duty	happen	lump
car	early	hard	lunch
	earning	harder	made

mailed	playing	settlement	they
maker	please	seven	thin
mark	pleasure	seventy	third
married	pocket	several	those
master	point	shade	thought
match	present	shall	thus
matter	press	shame	ticket
Monday	print	share	tip
mostly	printed	she	to-day
mountain	printer	shut	told
mouth	produce	sickness	took
Mr.	product	silver	top
much	protest	simple	town
mud	provided	sin	township
music	pull	sir	toy
myself	pure	sister	trade
name	quart	sixty	trip
nation	quick	skate	trunk
near	railroad	sleep	try
never	rain	slip	two
new	raise	smaller	unable
nicely	rate	snowing	union
normal	raw	soil	unless
north	reach	some	us
nose	reading	something	used
notice	reduced	sometime	valued
Nov.	reduction	son	wagon
number	remain	song	waited
nut	removed	soon	wake
oats	rented	sooner	walked
Oct.	renting	space	want
of	repeat	spell	wanting
off	reply	spot	war
only	result	spring	warm
outside	rice	square	washing
oven	ring	stage	watching
overlooked	river	stamped	went
packing	rolling	stand	western
paint	roof	standing	white
painting	rubber	staying	why
papa	running	stove	wild
park	rust	strongest	win
part	sack	stunt	window
party	safe	sugar	winter
pass	same	Sunday	wish
patch	sand	sweet	wished
pay	sat	swell	wishes
peace	score	table	wishing
peach	seat	taken	within
personal	second	talking	word
phone	secure	tank	worth
pick	seed	teacher	wrong
picking	self	teeth	yard
picture	sell	tenth	yesterday
pig	selling	than	your
pine	sent	then	zero
placed			

STEP 3—98%			
acre	chicken	feeling	lift
acted	chum	felt	liked
acting	cleaner	fifty	listed
active	cleaning	first	living
actor	clearly	fixed	loaded
against	clerk	flat	local
aid	closed	flower	locate
alive	cloth	forget	location
among	coast	former	loud
answered	colder	four	lung
answering	colt	frame	machine
anyone	condition	French	maid
anywhere	construction	frost	maple
aside	contain	fruit	March
asleep	continue	fur	marking
auto	cooking	furnish	May
aware	cool	gather	meal
backed	cord	germ	meantime
basket	corrected	grant	measure
bean	cottage	granted	meat
bed	cotton	grass	meet
began	counting	greatest	method
begun	crop	growing	middle
behalf	daily	hand	might
belonging	damage	hang	mighty
belt	damp	hardly	mind
bench	dance	hardware	Miss
beside	daughter	health	mistake
Bible	dealer	heap	month
birthday	debt	hear	monthly
blame	Dec.	heating	morning
born	delighted	held	moved
branch	depend	herewith	neck
bridge	deportment	highest	news
broke	die	hole	noise
broken	direct	honest	none
brought	do	idea	noted
building	don't	improved	November
burn	door	income	now
buy	draft	inform	offering
buying	dresser	iron	older
cake	drive	island	orange
calf	egg	jar	other
careful	eight	jump	our
carpet	eighteen	jury	ours
cat	else	kindness	package
caused	English	kitten	parties
center	entire	lamp	paying
chance	even	lame	per
change	everything	largest	pillow
changed	example	laugh	pink
chapter	excuse	learned	plenty
charming	expecting	leather	popular
cheap	extend	leave	post
check	family	leaves	posted
	fat	lesson	pound
	feeding	liberty	pretty

prevented	spending	STEP 4—96%	duties
price	steam	97%	ease
printing	step	advanced	education
prize	stop	adventure	elected
production	street	advise	election
promise	strongly	afterward	eleventh
proper	student	agree	enough
property	sum	aim	entered
proud	sun	almost	eve
provide	supper	already	everyone
queen	taxes	ample	excited
race	tested	animal	expert
reached	thereafter	ans.	extent
reaches	thick	appointed	extra
reaching	thirty	base	factor
recall	thread	beat	failure
record	tile	beauty	Feb.
recover	till	beg	female
refuse	tire	begin	fence
regular	ton	bet	film
regulation	topic	blessed	find
relation	trained	blew	finished
remark	travel	blow	folder
remove	treated	bluff	follow
renter	treatment	boiler	forest
repair	true	both	fortune
require	turkey	brand	freeze
reserve	twelve	bugs	fully
respect	twice	builder	fun
respond	understood	button	funny
retail	upon	buyer	furnished
road	valley	calm	gaining
rushed	very	carried	garden
sad	visit	cast	gentleman
sale	vote	cheaper	glasses
saying	voter	checked	glee
season	walking	chill	gotten
section	washed	chop	gown
seen	watched	clay	grand
Sept.	weak	clock	grandfather
September	week	composition	great
seventh	welcome	consider	greatly
shop	west	conversation	hall
shot	wet	crib	handle
showed	whenever	cure	having
side	whereby	dated	hearing
sight	which	dearly	improve
sign	wide	deeply	included
simply	witch	deliver	increase
singing	wonder	depot	inquire
snap	worm	devoted	insist
snowed	worse	direction	inspect
somewhere	write	dodge	instruct
sort	yearly	dose	interest
south	young	dressed	introduced
speed		drilling	issue
		during	itself

I've	requested	beaten	general
joined	required	became	gladly
kitchen	resident	become	gland
knowing	retain	beyond	goldfish
labor	returned	bid	greeting
leaf	right	bigger	harvest
least	rod	birth	helped
lecture	saved	brown	hereafter
letting	scale	buggy	homesick
lone	settle	burden	homestead
lonesome	shed	busy	hoped
lumber	sheet	cared	hurt
meeting	shipment	carrier	ideal
member	shortly	caught	illness
mend	single	cigar	indeed
miss	sink	circus	industry
moment	sixth	closer	information
movement	slipper	collect	inviting
need	sorry	collection	joke
needed	speak	color	kept
needle	special	comfort	killed
nerve	spread	companion	known
obtain	stair	connect	language
October	stories	constant	later
opened	stuff	copy	length
or	suffering	correctly	level
otherwise	suppose	couple	likewise
outfit	tie	cousin	limited
packed	tired	covered	lowest
pain	to	dearest	lucky
passing	total	death	ma
payable	trace	demand	manage
pencil	trouble	desire	mass
per cent	turn	directly	minister
perfect	turned	dispose	minute
pin	united	does	moderate
plain	velvet	dollar	narrow
plan	visiting	dread	nearer
planted	whom	enclose	neat
poorly	withdraw	enjoying	neglected
post card	wonderful	entering	nor
potatoes	wool	everybody	nurse
prefer	youth	expressed	odd
problem		extended	officer
progress	96%	federation	ordering
prospect	according	field	ourselves
pump	addition	fifth	owe
putting	addresses	finest	owner
rack	advantage	flavor	pair
rainy	always	floor	particular
ranch	appeal	forgot	pavement
rank	appear	foundation	period
recess	appeared	frankly	phoned
reduce	apply	froze	porch
remind	attended	fund	postage
render	average	gallon	prepare
reputation	barrel	game	president
	bear		

pride	STEP 5—94%	farther	owned
primary		feature	painter
prompt	95%	feeder	pearl
properly	absence	feel	pending
public	accept	fifteen	performed
rained	adjust	final	perhaps
raining	advised	fix	piano
rapid	afraid	flour	played
refused	allow	football	possible
relative	amounting	fourteen	postal
remained	anyway	friendly	presented
remember	approved	frozen	produced
reported	arrived	furnishing	program
resulting	asked	future	promptly
rip	August	garage	protected
rose	awaiting	gas	proven
seal	barley	geography	providing
seem	beef	getting	published
serve	beet	globe	pupil
served	breakfast	graduate	quickly
settled	broad	grandma	raising
shape	cane	grit	recovered
shock	cement	guess	regret
signed	central	ha	relationship
since	checking	habit	rendered
sock	Christmas	honor	renew
soldier	circular	hurried	returning
someone	climate	husband	ribbon
sorrow	coasting	I'll	sash
speaker	commerce	include	saving
steel	common	including	says
strike	complete	intended	scout
suit	concluded	interested	search
system	connected	investment	service
talked	connecting	join	serving
team	contained	joyful	shipping
territory	content	kisses	skirt
text	corner	knew	sleet
thankful	crazy	knot	soap
there	credit	limb	steady
these	delivered	lodge	supplies
Thursday	deserve	loyal	supply
tiny	desired	manner	support
to-night	dirty	mister	supposed
towel	doctor	moral	sure
training	domestic	Mrs.	sweater
trial	dwelling	musical	taking
Tuesday	elect	national	temple
until	entertain	neighbor	their
upper	establish	newspaper	themselves
vision	exact	northern	though
weary	except	noticed	throat
wedding	explain	notion	through
weekly	factories	obtained	throughout
won	fair	ocean	title
worst	famous	offered	track
yourselves	fancy	oh	tract

transportation
tread
uniform
visited
voice
waist
woman
written

94%

absolute
advising
afloat
although
artist
ashamed
assembly
assist
Ave.
avenue
badly
balance
bite
bottom
bulk
candle
can't
carefully
cashier
certain
chairman
changing
cheerful
citizen
complaint
connection
consideration
convention
cough
county
curtain
dancing
dangerous
debating
democratic
dice
difference
difficult
directed
due
extensive
fairly
fare
fault
favorable
fee
figured

foolish
fuel
garment
gentlemen
gray
grind
grove
guide
hen
higher
household
human
importance
increasing
informed
inspector
intend
interesting
junk
liberal
lie
lighting
likely
listen
lovely
maintain
model
moving
natural
no
outlined
permit
pertaining
pole
powder
preacher
priced
process
promotion
prove
publisher
quality
quite
rapidly
reception
refreshment
register
replying
rough
row
rye
satisfaction
scarce
shopping
silence
sore
spare

spirit
standard
statement
strength
studies
substitute
success
supplied
tanning
tax
term
thereof
vacation
wait
wear
winner
worthy
Xmas.

STEP 6—92%

93%

adjustment
anxious
apart
application
arrive
assured
attached
attain
attempt
attending
avoid
boarding
booth
clever
cloudy
concert
confined
consist
containing
correction
decrease
design
didn't
division
dreadful
enclosed
encourage
entirely
exam.
expired
fashion
fashionable
favored
federal
fever

finger
fitted
folk
funeral
furnace
gasoline
group
hence
holiday
honestly
humor
improving
institute
international
introduction
ironing
justified
justify
kindest
latest
liable
limit
loving
main
manager
modern
nap
neglect
nevertheless
notify
opening
organ
pa
penny
plainly
pools
prepaid
private
proceed
proved
quiet
quotation
recite
refund
regardless
reliable
requesting
scrap
seemed
server
sire
situation
skating
slide
smooth
struck
struggle

style	eager	salary	machinery
subscriber	employed	secured	majority
suitable	enjoyed	seldom	material
surface	enter	seller	mention
taste	entitle	serious	million
taught	evidence	social	needing
telephone	excess	submit	neither
tend	expensive	Thanksgiving	notified
therefore	explaining	tickled	oversight
throw	followed	traveling	parcel
tight	forced	wage	perfectly
touch	forgotten	wearing	position
tried	forth	Wednesday	purchase
uncle	fullest	workmanship	purpose
unpaid	government		responsible
useful	grammar	91%	sanitary
wasn't	headache	adopted	sew
weather	healthy	affair	sis
weight	hello	agriculture	stayed
whole	hereby	ambition	to-morrow
wholesale	housekeeping	applied	valuable
whose	I'd	attraction	we'll
women	inclined	baking	
wondering	increased	believe	STEP 7—88%
worry	indicate	biggest	90%
you'll	instance	bit	
92%	instant	blackberries	
ability	instructed	bowl	actual
absent	instructor	cabinet	addressed
accomplish	invitation	certainly	admit
adjusted	lbs.	cherries	arrange
advancement	linen	choice	blizzard
appointment	mental	circulation	blooming
article	merry	concern	college
attention	met	creamery	combination
author	obligation	creep	comfortable
await	parent	crew	conclusion
break	parlor	different	confidence
breaking	pastor	drama	considered
butcher	piece	effort	copies
capable	placing	enroll	courage
captain	policy	explained	coy
chief	prepared	firm	cute
closely	presume	ford	decided
closing	prevail	German	discontinued
considerable	previous	glorious	doubt
considering	promised	graduation	doubtless
constitution	quarter	grocery	either
cooler	quit	handled	employer
crippled	rabbit	handling	established
delayed	recent	herein	estimated
delightful	regard	improvement	examined
detail	represent	inclose	expense
director	roll	internal	expression
discover	route	invoice	favorite
disposed	ruin	legal	fierce
dozen	saddle	loan	following
			forward

frequently	agreed	weigh	respectfully
fresh	argument	won't	rifle
gee	arrival	writing	Saturday
grown	arriving	88%	sewing
guest	banquet	ache	sitting
helpful	billed	ankle	society
I'm	cedar	approval	source
impression	choose	assure	studied
inclosed	circumstances	assuring	submitted
insurance	collar	attorney	surplus
involved	colored	automatic	view
issued	continued	automobile	waste
item	dairy	braid	weighed
largely	deliveries	Bro.	87%
lately	delivery	cartoon	accordingly
liquid	discourage	celebrate	announce
loss	entertaining	coming	arranged
madam	error	commercial	attach
manual	exactly	comply	booster
nephew	fourth	contrary	calves
nineteen	freight	credited	canned
oblige	generous	current	cellar
o'clock	gradually	decide	character
ordered	graze	deposit	collecting
post office	grip	deserved	commence
preparing	happened	disposal	conference
proposition	hesitate	durable	convince
publication	independent	earnest	course
purchased	insert	engineer	data
realize	installed	exciting	destination
recently	investigate	exercise	earliest
remembered	laid	fern	enclosing
remembering	mentioned	fortunate	fitting
renewed	numerous	forty	generally
representation	opera	forwarding	gratitude
represented	ordinary	friendship	hadn't
riding	past	further	happiness
rural	pattern	ghost	haste
securing	personality	growth	hospital
select	picnic	hare	illustrated
selection	plum	headquarter	institution
series	possibly	identify	intention
shipper	practice	impossible	investigation
slept	profitable	inasmuch	junior
slight	queer	latter	knowledge
slightly	reasonable	manufacture	misses
splendid	satisfactory	misunderstanding	namely
suggest	saver	occupied	ought
treasurer	selected	plow	owing
university	shown	prayer	realizing
vacant	stating	procured	regarding
violin	strawberries	profit	registered
89%	suggested	proof	remedy
accident	supervision	qualities	remit
across	that's	quoted	republican
activity	type	received	salesman
agreeable	volume	reference	sincere

slippery
superior
telegram
toward
universal
urge
weren't
we've
worried
yoke
you'd

STEP 8—84%

86%

accordance
ambitious
bracelet
carrying
companies
customer
democrat
description
development
easily
effect
entry
equally
examine
exception
finally
forwarded
handkerchief
honorable
inclosing
lovingly
medicine
missed
obliged
Prof.
really
receive
reservation
resigned
straight
strict
using
usual
voting
wouldn't

85%

auditor
brief
chose
concerning
contemplating
cordial

crowded
examination
fabric
furniture
hustling
influence
journal
library
loose
neighborhood
politics
positive
premium
quote
senior
shipped
shoulder
signature
stationary
strictly
surprise
terrible
truly
utmost
whether

84%

advice
allowed
attractive
authorized
bog
capital
confident
couldn't
described
destroyed
etc.
experience
foreign
heir
illustrating
instrument
Latin
literary
meant
operation
opinion
pardon
patent
patient
possession
prosperity
satisfy
stomach
tatting
transit

83%

acknowledge
administration
advertise
association
awful
business
channel
compelled
contemplated
crocheting
desiring
enrolled
entertainment
envelope
favorably
filing
gravy
management
organize
organized
profession
raiser
refer
satisfied
secretary
stopped
studying
theater
together
too
vicinity
writer

82%

accomplished
additional
agency
altogether
annual
assortment
attitude
available
beginning
crowd
develop
difficulty
disagreeable
electrical
elsewhere
engineering
entitled
evidently
existing
figuring
handsome
hoping

illustration
manufacturing
official
operated
operating
subscription
transfer
various

STEP 9—79%

81%

acceptance
acquire
choosing
constantly
convinced
daddy
dependent
duplicate
examiner
February
graduating
individual
its
lining
lose
merchandise
particularly
science
timothy

80%

admission
associated
assume
assurance
commission
confer
congratulation
decision
enormous
enrollment
equipment
exceptional
exhibit
explanation
extreme
forenoon
genuine
hasn't
hauled
isn't
jobber
label
nervous
patron

practical
regularly
responsibility
succeed
supervisor

79%

appreciate
assistance
ballot
bass
candidate
certificate
Christian
civics
distribution
executed
hers
inducement
legislation
magazine
maturity
maybe
principal
readily
registration
unusual

78%

advertised
appreciated
assigned
assistant
bargain
believing
clothe
confirm
control
cushion
formerly
interfere
pleasant
relieve
resource
surprised
talent
worrying

77%

actually
consequently
correspond
coupon
crochet
demonstrated
demonstration
disgusted
haven't
imagine

mamma
ninety
organization
prosperous
successful
sympathy

STEP 10—73%

76%

applicant
electricity
excitement
familiar
heretofore
immediate
merely
orchestra
physical
planned
preparation
presence
receiving
relieved
requirement
similar
variety
vary

75%

advisable
algebra
associate
awfully
carnival
co-operation
disease
Dr.
employee
mere
naturally
necessity
sense
Tues.
welfare

74%

advertising
alfalfa
appreciating
basis
benefit
campaign
catalogue
congratulate
consequence
conservatory
especially

excellent
exclusively
merit
necessary
quantity
reliability
response
separate

73%

aren't
choir
commissioner
committee
co-operative
extension
inquiry
meter
ninth
possibility
practicing
renewal
safety
straightened
succeeded

72%

agricultural
alley
appearance
capacity
community
confirming
corporation
notary
usually

71%

administrator
amendment
attendance
coarse
compliment
cordially
customary
installment
niece
soliciting
surgery

70%

advertisement
appreciation
arrangement
assignment
based
bureau
considerably
convenience

exhibition
hastily
original
preliminary
specification

STEP 11—66%

69%

acquainted
correspondent
disappointed
epidemic
inferior
license
sincerely
specially

68%

athletics
doesn't
exceptionally
mechanical
occasion
passed
probably

67%

allotment
announcement
authority
bonus
definite
efficient
essential
exhausted
librarian
nickel
personally
planning
professional
regretting
remittance
sufficient

66%

absolutely
consultation
ere
good-bye
quantities
receipt
unnecessary

65%

barely
communication
completely
executive

extremely	59%	pneumonia	43%
financial	enthusiastic	referred	guarantee
inquiries	lieutenant		rheumatism
literature	unusually	52%	
representative	58%	satisfactorily	42%
64%	all right	51%	appendicitis
calendar	alumni	bulletin	Hallowe'en
leisure	anticipate	disappointment	41%
opportunity	assessment	grateful	conveniently
solicit	candidacy	referring	enthusiasm
63%	continuous		guaranteed
annually	fundamental	50%	occasionally
practically	geometry	apparatus	39%
semester	girlie	co-operating	accommodate
superintendent	physician	inconvenience	peculiarities
	possess	judgment	38%
	thorough	rec'd	schedule
STEP 12—58%	57%	efficiency	
62%	thoroughly	inst.	STEP 15—34%
client	56%	remembrance	37%
convenient	accompanying	48%	definitely
council	acquaintance	grippe	fraternally
immense	auntie	prior	35%
permanent	originally	47%	anniversary
principle	recommendation	affectionately	34%
61%	55%	46%	zephyr
accredited	anticipating	politician	33%
characteristic	circuit	tuberculosis	chautauqua
courteous	disappoint		X-ray
losing	equipped	STEP 14—42%	31%
scientific	immediately	45%	canvass
60%	STEP 13—50%	affidavit	
analysis	54%	44%	STEP 16—27%
correspondence	confirmation	ingredients	28%
mortgage	materially	privilege	phosphorus
Sabbath	recommend		
	thesis		

APPENDIX

EXHIBIT A

Set I, list 1 illustrates the form in which words were sent to the various schools.

Iowa Spelling List—1-1

1 and	26 recently	51 fraternally	76 attractive
2 me	27 pupil	52 broke	77 management
3 some	28 correct	53 cake	78 toy
4 think	29 walk	54 blood	79 singing
5 say	30 Dr.	55 renewal	80 forenoon
6 each	31 happen	56 confident	81 durable
7 way	32 top	57 colored	82 per cent
8 great	33 window	58 roll	83 kitten
9 put	34 shipping	59 clock	84 plow
10 picture	35 wife	60 forced	85 faster
11 market	36 standard	61 outfit	86 breaking
12 folk	37 printed	62 thorough	87 brand
13 real	38 fifty	63 waste	88 soap
14 sorry	39 cream	64 grown	89 calendar
15 leave	40 recommend	65 stick	90 anniversary
16 aunt	41 prior	66 deep	91 extreme
17 credit	42 crowd	67 organized	92 possess
18 supply	43 forwarded	68 exceptional	93 kinder
19 street	44 cool	69 weigh	94 slept
20 profit	45 rush	70 applicant	95 dice
21 begin	46 represented	71 porch	96 federal
22 net	47 publication	72 staying	97 insert
23 May	48 blow	73 instructed	98 likewise
24 brought	49 fixed	74 slightly	99 identify
25 Oct.	50 newspaper	75 tie	100 daddy

EXHIBIT B

Instructions sent with spelling material to all cooperating teachers.

INSTRUCTIONS TO TEACHERS

This work is a part of a state wide effort to grade a list of most commonly used words. The success of the work will depend upon the accuracy with which you and all other teachers follow these directions.

Please have your pupils spell one list each day; 100 words if you are teaching grades V to VIII and 50 words if you are teaching grades II, III or IV. Pronounce each word distinctly and make sure that each child understands the word. Give a short illustrative sentence in all cases where different words have the same or similar pronunciation. The words are to be given without previous study or drill of any kind. Give plenty of time but no assistance.

Have the work done with pencil, on paper of uniform size, writing two columns on a page but do **not** write on both sides of the paper. The child should write his name, sex, age, and grade and the name of his school and city at the top of **each** sheet. Pronounce the words in order numbered and have the pupils number the words as they write them. This is very important.

Impress upon the children that in case of an error, they are to draw a line through the word and write it correctly above or beside the misspelled word. Words in which one letter has been written over another will be counted wrong, as it is almost impossible to know which was the child's final decision on the spelling.

It is recognized that in the lower grades many of these words are quite unfamiliar to the children and that a large proportion of the pupils will not be able to spell most of the words in the list. The only way, however, to find out what words the children can spell and what words they cannot spell is to give them the opportunity to attempt to spell all the words. Keep them just as happy in the effort as possible by telling them that other boys and girls of the same grade are trying to spell the same words in other schools in Iowa. If you are teaching in grade II or III, it will probably be better to pronounce 25 words in the forenoon and 25 in the afternoon than to give all 50 at once.

If your pupils are in grades VI, VII, or VIII, will you please assist in the scoring by having a few of the stronger pupils detailed each day to check the papers of all members of the class. Caution them that they are not to mark the word in any way but only make a cross through the number of the word which is misspelled. Four children can correct the papers for a room in twenty to thirty minutes and you will doubtless have no difficulty in finding some of the pupils who will very gladly do this.

The papers are to be collected each day and tied together. At the end of the ten days, the ten bunches of papers which represent the ten days' spelling of the pupils in your room, are to be sent tied in a single package to your superintendent. He will then forward these papers with all others from your city to the Extension Division. The Extension Division will score the papers from the lower grades and tabulate the spellings from all contributing schools and return the results to your Superintendent.

To the extent that these instructions are carefully followed and your cooperation secured will the results be of value to all the schools of the state. Please give the work your best effort but do not attempt to improve the spelling of the children of your room on these words by assisting them in their spelling in any way.

EXHIBIT C

Cities Co-operating in Spelling Study

Adair	Denison	Lake View	Oskaloosa
Algona	Dunlap	Lansing	Ottumwa
Ames	Eddyville	La Porte City	Pella
Belle Plaine	Eldon	Le Mars	Pocahontas
Belmond	Fairfield	Lineville	Postville
Bloomfield	Glenwood	Manilla	Red Oak
Bonaparte	Grinnell	Manson	Reinbeck
Boone	Griswold	Marengo	Remsen
Britt	Guttenburg	Marshalltown	Rockford
Buffalo Center	Hampton	Montezuma	Rockwell City
Burlington	Hartley	Monticello	Rolfe
Carroll	Hawarden	Moulton	Sheldon
Casey	Hopkinton	Muscateine	Sidney
Centerville	Humboldt	Nashua	Sigourney
Chariton	Humeston	Nevada	Sioux Center
Charles City	Ida Grove	New Hampton	Spirit Lake
Cherokee	Independence	New London	State Center
Clarinda	Inwood	New Sharon	Stuart
Clarion	Iowa City	Newton	Toledo
Clinton	Jewell	Northwood	Waterloo, E.
Corning	Keokuk	Oakland	Waukon
Corydon	Keosauqua	Oelwein	What Cheer
Council Bluffs	Kingsley	Orange City	Williamsburg
Cresco	Knoxville	Osage	Woodbine
Davenport	Lake Mills		

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The Iowa spelling scales

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